



Public Notice

**U S Army Corps
of Engineers**
Huntington District

In reply refer to Public Notice No.

200401249

Issuance Date:

February 2, 2006

Stream:

Closing Date:

-UNTrib Standingstone Fork

March 4, 2006

Please address all comments and inquiries to:

U.S. Army Corps of Engineers, Huntington District

ATTN: CELRH-OR-F Public Notice No. (*reference above*)

502 Eighth Street

Huntington, West Virginia 25701-2070

Phone: (304) 399-5210

PUBLIC NOTICE: The purpose of this public notice is to inform you of a proposal for work in which you might be interested. It is also to solicit your comments and information to better enable us to make a reasonable decision on factors affecting the public interest. We hope you will participate in this process.

REGULATORY PROGRAM: Since its early history, the U.S. Army Corps of Engineers (Corps) has played an important role in the development of the nation's water resources. Originally, this involved construction of harbor fortifications and coastal defenses. Later duties included the improvement of waterways to provide avenues of commerce. An important part of our mission today is the protection of the nation's waterways through the administration of the Corps Regulatory Program.

SECTION 10: The Corps is directed by Congress under Section 10 of the Rivers and Harbors Act of 1899 (33 USC 403) to regulate all work or structures in or affecting the course, condition or capacity of navigable waters of the United States (U.S.). The intent of this law is to protect the navigable capacity of waters important to interstate commerce.

SECTION 404: The Corps is directed by Congress under Section 404 of the Clean Water Act (33 USC 1344) to regulate the discharge of dredged and fill material into all waters of the United States, including wetlands. The intent of the law is to protect the nation's waters from the indiscriminate discharge of material capable of causing pollution and to restore and maintain their chemical, physical and biological integrity.

TO WHOM IT MAY CONCERN: The following application has been submitted for a Department of the Army Permit under the provisions of Section 404 of the Clean Water Act.

APPLICANT: Oxford Mining Company
544 Chestnut Street
PO Box 427
Coshocton, Ohio 43812

LOCATION: The project area is located in jurisdictional waters of the United States in the Standingstone Fork and Brushy Fork watersheds. The site is located in Sections 10, 16, 17, 22, 23 and 24 of Cadiz Township, Harrison County, Ohio.

DESCRIPTION OF PROPOSED WORK: The applicant proposes to place fill material into waters of the United States in association with the construction of a surface coal mine operation. According to the applicant, the purpose of the project is to recover available coal reserves in the project area.

The project area encompasses a total of 1,815 surface acres. Jurisdictional waters within these limits total 20.29 acres of wetlands, 389 linear feet of perennial stream, 13,399 linear feet of intermittent stream, 1,440 linear feet of ephemeral stream, 42.92 acres of open water impoundments and 0.18-acre of wetland fringe associated with open water impoundments. Each of these waters were determined to exhibit a hydrologic connection to unnamed tributaries of either Standingstone Fork or Brushy Fork, each of which are tributaries in the Tuscarawas River watershed.

An additional 14.87 acres of wetlands, 4,678 linear feet of intermittent stream, 373 linear feet of ephemeral stream, 36.56 acres of open water impoundments and 1.11 acre of wetland fringe associated with open water impoundments are located within the project boundaries and do not exhibit a connection to a surface tributary system. Therefore, these waters were determined to be isolated waters of the State of Ohio. While impacts to isolated waters of the State are proposed to occur, these impacts are not regulated under Section 404 of the Clean Water Act.

The proposed mining plan involves the removal of approximately 6 million tons of coal from the Pittsburg #8, Pomeroy #8A and Meigs Creek #9 coal seams through surface and auger mining. Current conditions of the project area are characterized by unreclaimed mining activities, including highwalls, spoil piles, sediment ponds and deepwater pit impoundments. Following coal removal, remaining highwalls would be covered and returned to approximate original contours.

The applicant proposes to place fill material into jurisdictional streams, wetlands and open-water impoundments in association with coal extraction, road construction, pond construction and placement of spoil. A total of 9,514 linear feet of jurisdictional stream, 15.19 acres of jurisdictional wetlands and 41.24 acres of open-water impoundments would be impacted in association with the placement of fill material for the purposes just described. An additional 2,450 linear feet of stream and 0.59 acre of jurisdictional wetlands would be secondarily impacted in association with transport of sediment. Proposed impacts to isolated waters of the State of Ohio include 4,885 linear feet of stream, 12.93 acres of wetlands, and 32.71 acres of open water impoundment. This information is summarized below (Table 1).

Table 1. Summary of proposed impacts to jurisdictional waters of the United States and isolated waters of the State of Ohio in association with the proposed Daron-Consol surface coal mine site, Harrison County, Ohio.

	JD impacts*	Isolated impacts	JD preserved	Isolated preserved
Streams (linear feet)	11,964	4,885	3,264	166
Wetlands (acres)	15.78	12.93	4.51	3.05
Open water (acres) ‡	41.24	32.71	1.68	4.94

* , JD = Jurisdictional waters of the United States; † Isolated waters of the State of Ohio; ‡ Open water impoundments.

Details concerning individual waters proposed to be impacted, their quality (as assessed by Qualitative Habitat Evaluation Index, Headwater Habitat Evaluation Index or Ohio Rapid Assessment Method protocols), and purpose of proposed impact are attached (Tables 2-4).

MITIGATION: To compensate for proposed impacts to jurisdictional waters of the United States, the applicant has proposed avoidance, minimization and compensation measures. A conceptual mitigation plan has been submitted for review.

The original permit area for this proposal included 1,900 contiguous acres. During initial planning and review, approximately 85 acres were excluded to reduce impacts to jurisdictional waters of the United States. This reduction resulted in the proposed avoidance of 7.05 acres of jurisdictional wetlands, 1,997 linear feet of stream and 7.73 acres of open water impoundments immediately outside of the project area. On-site waters proposed to be avoided include 3,264 linear feet of stream, 4.51 acres of wetlands and 1.68 acres of open water impoundments.

Impacts to waters of the United States on-site and downstream of the project area are proposed to be minimized through implementation of best management practices. Appropriate construction and use of sediment ponds, drainage control structures, diversion ditches, and other best management construction practices are proposed to minimize impacts to waters of the United States.

Compensation for proposed impacts to waters of the United States is proposed through the reclamation of previously mined areas following completion of coal recovery. Because the proposed mine area has been previously affected by mining prior to implementation of the Surface Mining Control and Reclamation Act, the applicant has provided information that the project area is characterized by active slides, high levels of sediment loading, severe erosion problems, exposed spoil areas, contamination of surface waters, unstable/disrupted drainage patterns and lack of natural riparian buffer zones. The applicant anticipates reclamation of the permit area would result in the elimination of highwalls, the removal of slide-prone areas, the reconstruction of natural drainage patterns, the removal, attenuation or entombment of spoil areas and byproducts, and reduction of sediment and metal loading.

In order to compensate for the proposed loss of jurisdictional waters as described above, a total of 16,916 linear feet of stream would be reconstructed and 15.78 acres of wetlands would be

created on-site. Backfilling and rough grading in association with stream reconstruction is proposed to occur within 60 days or 1,500 linear feet following coal removal activities in that area of the site. Soil placement is proposed to commence and be completed on graded areas during the first planting/growing season following completion of grading. Hardwood vegetation is proposed to be established within those riparian zones that are characterized by tree and shrub vegetation prior to mining. Construction of wetlands would take place after mining has been completed within that area of the site. Mitigation wetlands are proposed to be located within and around the perimeters of seven (7) sediment ponds proposed to remain as permanent features.

The applicant has proposed to submit an instrument that would ensure the protection of waters in perpetuity to this office for review. The applicant proposes to monitor stream and wetland mitigation. The applicant proposes to monitor wetland stability, hydrology and hydrophytic vegetation in association with wetland mitigation. The applicant proposes to monitor channel stability, hydrology, chemical parameters (pH, total suspended solids, specific conductivity, total alkalinity, total acidity, total iron, total manganese, sulfates and hardness) and riparian vegetation in association with stream mitigation. To date, the applicant has not provided information concerning target conditions for each of the monitored parameters that must be obtained to consider the streams and wetlands successful.

ALTERNATIVE ANALYSIS: A total of 15.19 acres of jurisdictional wetlands would be filled as a result of the proposal. The project does not require access to or siting within the wetlands to fulfill its basic purpose and is considered a non-water dependent activity. The Section 404(b)(1) Guidelines state for non-water dependent activities, practicable alternatives that do not involve wetlands are presumed to be available unless clearly demonstrated otherwise. The applicant is required to provide an alternative analysis that must overcome the presumption prior to receiving authorization for the placement of fill material. A preliminary alternative analysis has been submitted to this office for review.

ATTACHMENTS: Plans of the proposed work are attached to this notice.

WATER QUALITY CERTIFICATION: A Section 401 Water Quality Certification is required for this project. It is the applicant's responsibility to obtain that certification from the Ohio Environmental Protection Agency.

HISTORIC & CULTURAL RESOURCES: The applicant has provided information that a Phase I Archaeological Survey has been conducted within the limits of the permit area, the results of which have been coordinated with the Ohio Historic Preservation Office (OHPO) in accordance with requirements of the Surface Mining Control and Reclamation Act. A copy of this public notice will be sent to the Ohio Historic Preservation Office (OHPO) for their review. Comments concerning archeological sensitivity of a project area should be based upon collected data.

THREATENED & ENDANGERED SPECIES: This project is located within the known or historic range of the Indiana bat (endangered); and Bald eagle (threatened).

To address the requirements outlined in the Ohio Department of Natural Resources Permitting Policy Procedure Directive 2004-01: Measures for Protecting the Endangered Indiana Bat, the applicant chose to conduct surveys to demonstrate presence or probable absence of the Indiana bat. Surveys were conducted in June and July 2004 within the approximate 900 acres of the site that exhibited potential Indiana bat habitat. Based on the results of mist-net surveys, no Indiana bats were detected. The USFWS has concurred that this completed survey fulfills the applicants responsibility under PPD 2004-01.

Based on habitat availability and location, it has been determined the proposal would have no affect on the bald eagle.

This public notice serves as a request to the U.S. Fish and Wildlife Service for any additional information they may have whether any listed or proposed to be listed endangered or threatened species may be present in the area that would be affected by the activity, pursuant to Section 7(c) of the Endangered Species Act of 1972 (as amended).

PUBLIC INTEREST: Any person who has an interest, which may be adversely affected by the issuance of a permit, may request a public hearing. The request must be submitted in writing to the District Engineer on or before the expiration date of this notice and must clearly set forth the interest which may be adversely affected and the manner in which the interest may be adversely affected by the activity.

Interested parties are invited to state any objections they may have to the proposed work. The decision whether to issue a permit will be based on an evaluation of the probable impact including cumulative impacts of the proposed activity on the public interest. That decision will reflect the national concern for both protection and utilization of important resources. The benefit, which reasonably may be expected to accrue from the proposal, must be balanced against its reasonably foreseeable detriments. All factors that may be relevant to the proposal will be considered, including the cumulative effects thereof; among those are: conservation, economics, aesthetics, general environmental concerns, wetlands, historic properties, fish and wildlife values, flood hazards, floodplain values, land use, navigation, shoreline erosion and accretion, recreation, water supply and conservation, water quality, energy needs, safety, food and fiber production, mineral needs, considerations of property ownership and, in general, the needs and welfare of the people. In addition, the evaluation of the impact of the activity on the public interest will include application of the guidelines promulgated by the Administrator, Environmental Protection Agency, under the authority of Section 404(b) of the Clean Water Act. Written statements on these factors received in this office on or before the expiration date of this public notice will become a part of the record and will be considered in the final determination. A permit will be granted unless its issuance is found to be contrary to the public interest.

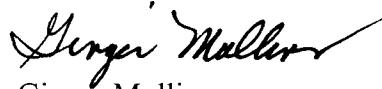
The Corps of Engineers is soliciting comments from the public; Federal, state, and local agencies and officials; Indian Tribes; and other interested parties in order to consider and evaluate the impacts of this proposed activity. Any comments received will be considered by the Corps of Engineers to determine whether to issue, modify, condition or deny a permit for this proposal. To make this decision, comments are used to assess impacts on endangered species, historic properties, water quality, general environmental effects, and the other public interest factors

listed above. Comments are used in the preparation of an Environmental Assessment and/or an Environmental Impact Statement pursuant to the National Environmental Policy Act. Comments are also used to determine the need for a public hearing and to determine the overall public interest of the proposed activity.

CLOSE OF COMMENT PERIOD: All comments pertaining to this Public Notice must reach this office on or before the close of the comment period listed on page one of this Public Notice. Persons wishing to submit comments, objections or requests for public hearings concerning the Corps of Engineers permit should write:

U.S. Army Corps of Engineers
ATTN: CELRH-OR-F Public Notice No. 200401588
502 8th Street
Huntington, West Virginia 25701-2070

Please note, the names and addresses of those who submit comments in response to this public notice become part of our administrative record and, as such, are available to the public under provisions of the Freedom of Information Act. Thank you for your interest in our nation's water resources. If you have any questions concerning this public notice, please call Ms. Desiree L. Hann of the North Regulatory Section at 304-399-5210.



Ginger Mullins
Chief, Regulatory Branch

(O)

Table 2. Proposed impacts to jurisdictional streams on-site in association with the proposed Daron-Consol surface coal mine site, Harrison County, Ohio. Information providing details concerning contents of each column is provided below table.

Stream ID	Flow	QHEI/HHEI	Total Length	Total Impact	WT Impact	ST Impact	PC Impact	SP Impact	Length Res	Loss/Gain
S-2	-	9	1886	1726	825	721	180	75	300	1630 6379
S-3	-	56	175	75					0	96, L 6204, G
S-4	-	21	300	300					0	
S-5	-	45	90	90					N/A	
S-6	-	70	1134	0	1030	1030			724	306, L
S-7	-	15	1030	1030	329	329			510	181, G
S-8	-	25	329	329	601	266	335		326	275, L
S-9	-	32	821	2652	2322	1152	390	480	300	360, L 409, G
S-10	-	36	2652	2652	426	426			1962	79, G
S-11*	-	15	426	426	415	415			835	
S-12	-	35	415	415	235	235			494	
S-13	-	15	235	235	236	236			0	
S-14	-	15	236	236	149	100			0	
S-21	-	58	403	403	403	403			1305	1156, G
S-23	-	28	403	403	204	204			163	240, L
S-24	-	53	204	204	607	437			0	
S-25	-	56	607	607	0	163	240	204	437	170, L
S-28	-	60	273	0	204	204				
S-29	P	49	186	186	437	437				
S-30	-	24	465	465	300	300				
S-31	-	35	32	32	32	32				
S-32	P	55	203	50	50	50				
S-33	-	19	158	88	88	88			0	
S-34	-	55	165	165	165	165			144	21, L
S-35	E	19	88	88	88	88			67	21, L
S-36	I	59	226	226	226	226			0	
S-40	E	20	616	616	616	616			0	
S-41	I	20	554	554	554	554			1452	898, G
S-42	E	24	83	83	83	83			268	185, G
S-43	E	36	102	102	103	103			0	
S-44	E	24	233	233	233	233			0	
S-45	I	66	580	200	200	200			200	
S-47	I	44	220	220	220	220			220	0
S-48	I	34	60	0	318	318			N/A	
S-49	E	24	318	318	318	318			318	0

Table 1. Continued

Stream ID: as described in the final investigation of waters prepared by Strategic Environmental Consulting and verified by this office on October 31, 2005;

Flow: Designation of stream flow: P, Perennial; I, Intermittent; E, Ephemeral;

QHEI/HHEI: Qualitative Habitat Evaluation Index or Headwater Habitat Evaluation Index scores as determined by Ohio Environmental Protection Agency's protocols;

Total length: Total length of each individual stream within limits of the 1,815 acre proposed surface mine area. Total jurisdictional stream length on-site = 15,228 linear feet;

Total impact: Total impact proposed to each individual stream on-site. Total jurisdictional stream length proposed to be impacted = 11,964 linear feet;

MT impact: Stream impacts associated with removal of coal;

ST impact: Stream impacts associated with sediment transport. While these stream lengths are not impacted by a primary placement of fill material, secondary impacts associated with sediment transport are identified;

PC impact: Stream impacts associated with sediment pond construction activities; and

SP impact: Stream impacts associated with the placement of spoil

Length Res: Stream length restored following completion of mining activities. Those streams for which a '0' is entered would not be restored after mining; and

Loss/Gain: A total of 1,489 linear feet of impacted stream is proposed to not be restored after mining. Following reclamation of areas affected by previous mining activities, a total of 9,112 linear feet of jurisdictional stream would be gained through reconstruction activities.

* Stream 11 has been determined to be an isolated water of the State of Ohio. Following reclamation, this stream is proposed to be reconstructed and connected to a surface tributary system; therefore, because this stream is proposed to become jurisdictional, it is include here.

Table 3. Proposed impacts to jurisdictional wetlands on-site in association with the proposed Daron-Consol surface coal mine site, Harrison County, Ohio. Information providing details concerning contents of each column is provided below table on next page.

Wetland ID	ORAM	Total acreage	Impact acreage	MT Impact	ST Impact	PC Impact	SP Impact
WL-8	2	3.63	1.4				1.4
WL-12	2	0.27	0.27				0.27
WL-13	2	0.84	0				
WL-14	2	0.28	0				
WL-16	2	0.02	0				
WL-17	1	0.29	0				
WL-18	1	1.02	1.02				
WL-22	2	0.81	0.81				
WL-25	2	0.33	0.33				
WL-26	2	0.84	0.84				
WL-27	2	0.91	0.91				
WL-34	2	0.57	0.57				
WL-35	2	0.05	0.05				
WL-36	2	0.17	0.17				
WL-41	2	0.84	0.84				
WL-44	2	0.78	0				
WL-45	2	2.11	2.11				
WL-46	2	0.05	0.05				
WL-48	2	0.81	0.81				
WL-49	2	0.99	0.99				
WL-64	2	0.07	0				
WL-65	2	0.40	0.40				
WL-66	2	1.17	1.17				
WL-71	2	0.59	0.59				
WL-73	2	0.14	0.14				
WL-79	1	0.10	0.10				
WL-80	1	0.09	0.09				
WL-81	1	0.12	0.12				
WL-82	1	0.37	0.37				
WL-84	1	0.30	0.30				
WL-85	1	1.15	1.15				
WL-Impound*	1	0.18	0.18				

Table 2. Continued
Wetland ID: as described in the final investigation of waters prepared by Strategic Environmental Consulting and verified by this office on

15.78

October 31, 2005;

ORAM: Ohio Rapid Assessment Method score as determined by the Ohio Environmental Protection Agency's protocol;

Total acreage: Total acreage of each individual wetland within limits of the 1,815 acre proposed surface mine area. Total jurisdictional wetland acreage on-site = 20.29 acres;

Total impact: Total impact proposed to each individual wetland on-site. Total jurisdictional wetland acreage proposed to be impacted = 15.78 acres;

MT impact: Wetland impacts associated with removal of coal;

ST impact: Wetland impacts associated with sediment transport. While these stream lengths are not impacted by a primary placement of fill material, secondary impacts associated with sediment transport are identified;

PC impact: Wetland impacts associated with sediment pond construction activities; and

SP impact: Wetland impacts associated with the placement of spoil.

* , Jurisdictional wetlands associated with open water impoundments (i.e. fringe wetlands).

Table 4. Proposed impacts to jurisdictional open water impoundments on-site in association with the proposed Daron-Consol surface coal mine site, Harrison County, Ohio. Information providing details concerning contents of each column is provided below table.

Impoundment ID	Total acreage	Impact acreage	MT impact	ST impact	PC Impact	SP Impact
I-15	12.57	12.57			3.4	9.17
I-16	2.86	2.86			0.4	2.46
I-23	1.47	1.47			1.29	0.18
I-24	0.29	0.29				0.29
I-25	0.2	0.2				0.2
I-32	0.51	0.51			0.29	0.22
I-33	8.13	8.13			0.57	7.56
I-35	0.22	0.22			0.22	
I-36	3.27	3.27			0.72	2.55
I-38	0.53	0.53				
I-42	3.48	3.48				
I-44	3.6	3.6				
I-45	2.85	1.41				
I-48	0.24	0				
I-52	1.87	1.87				
I-56	0.27	0.27				
I-57	0.2	0.2				
I-58	0.36	0.36				
	42.92	41.24				

Impoundment ID: as described in the final investigation of waters prepared by Strategic Environmental Consulting and verified by the COE on October 31, 2005;

Total acreage: Total jurisdictional open water impoundment acreage within limits of the 1,815 acre proposed surface mine area = 42.92 acres;

Impact acreage: Total acres of jurisdictional open water impoundments proposed to be impacted = 41.24 acres;

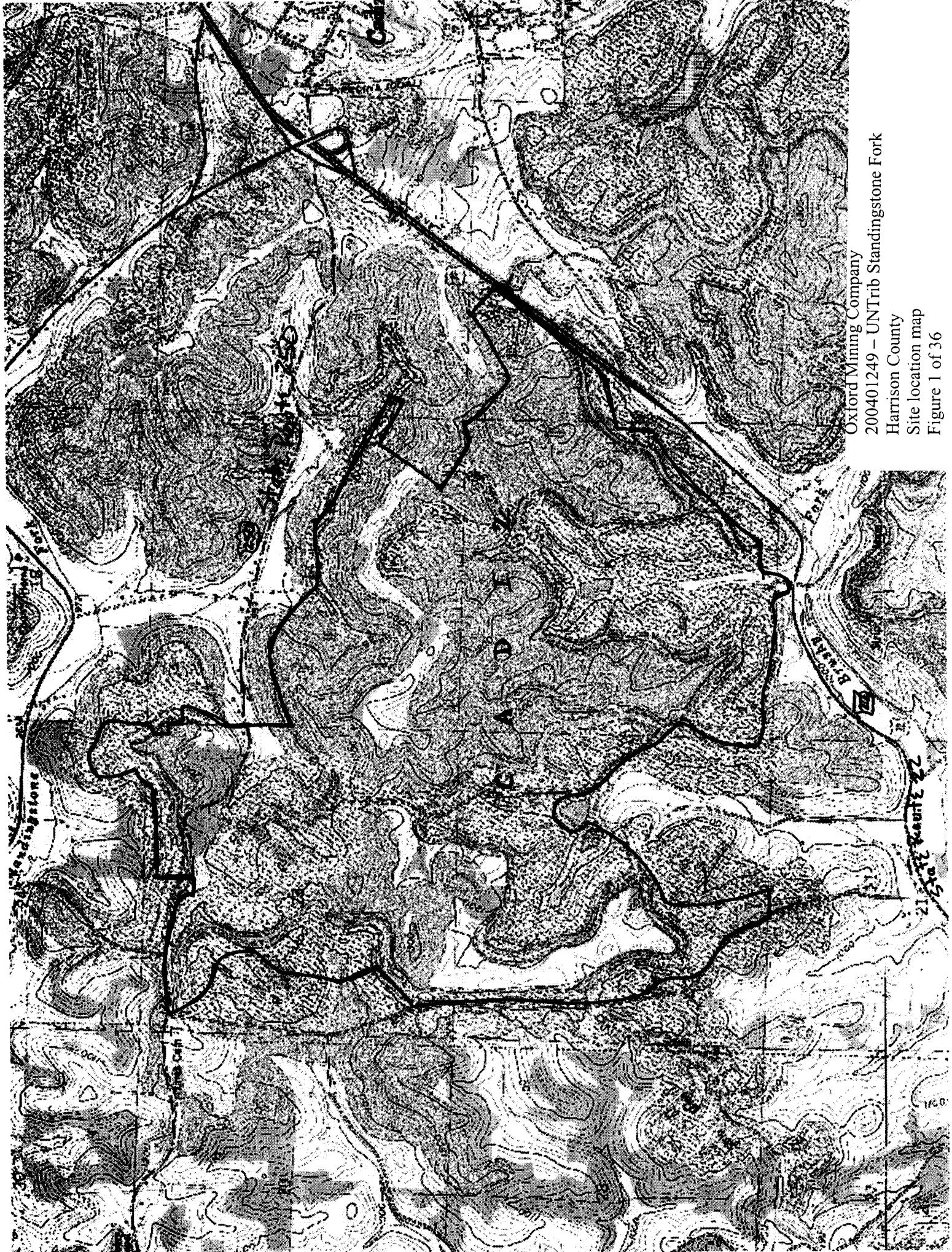
MT impact: Open water impoundment impacts associated with removal of coal;

ST impact: Open water impoundment impacts associated with sediment transport. Note: No open water impoundments to be impacted by sediment transport

PC impact: Open water impoundment impacts associated with sediment pond construction activities; and

SP impact: Open water impoundment impacts associated with the placement of spoil

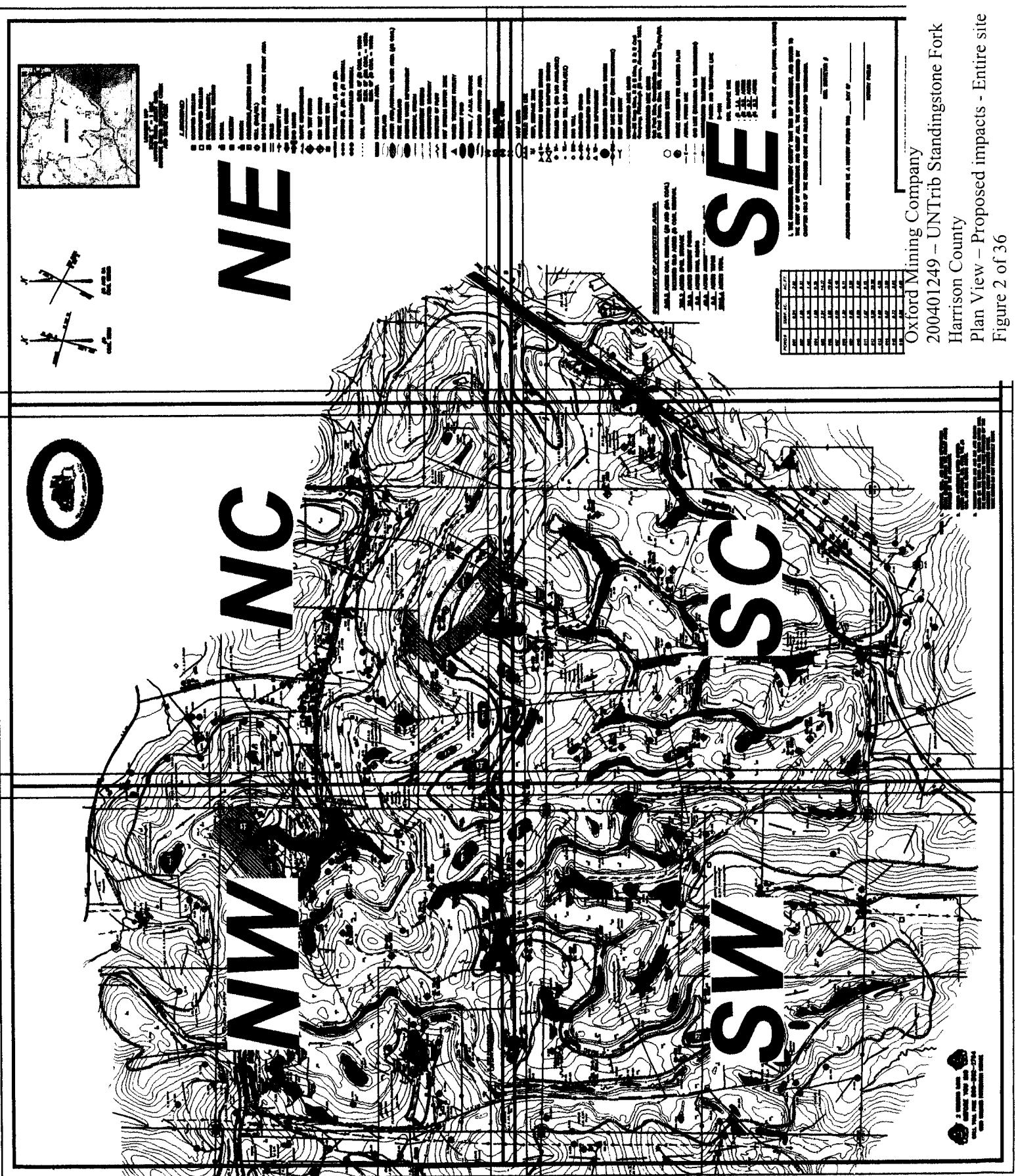
Oxford Mining Company
200401249 – UNtrib Standingstone Fork
Harrison County
Site location map
Figure 1 of 36



APPROX. SCALE: 1" = 2100'

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PERMIT APPLICATION MAP



Oxford Mining Company, Inc.

(Daron-Consol SW)

North West (NW)

Scale: 1" = 800'

NW

Oxford Mining Company

200401249 – UNTrib Standingstone Fork

Harrison County

Plan View – Proposed impacts - Northwest quadrant

Figure 3 of 36



Oxford Mining Company, Inc.

(Daron-Consol SW)

North Central (NC)

Scale: 1" = 800'

Oxford Mining Company
200401249 – UNTriB Standingstone Fork

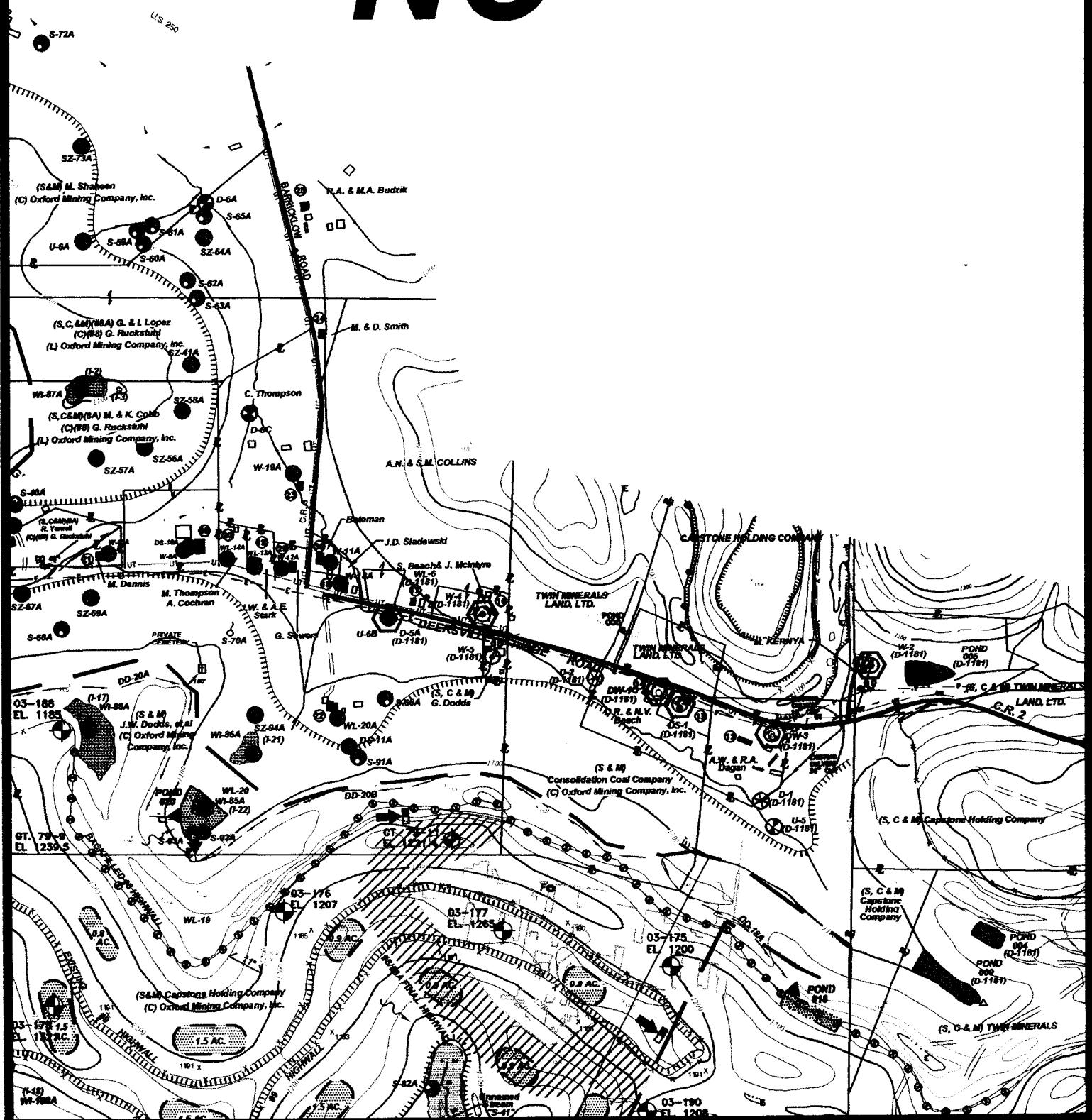
Harrison County

Plan View – Proposed impacts - North-central quadrant

Figure 4 of 36



NC

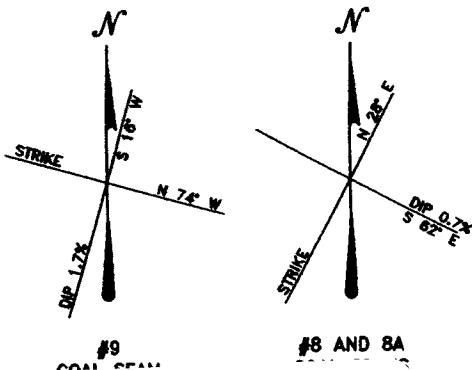


Oxford Mining Company, Inc.

(Daron-Consol SW)

North East (NE)

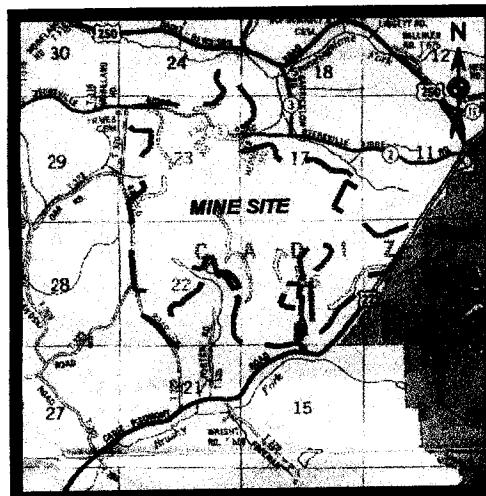
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Oxford Mining Company
200401249 – UNTrib Standingstone Fork

Harrison County
Plan View – Proposed impacts - Northeast quadrant

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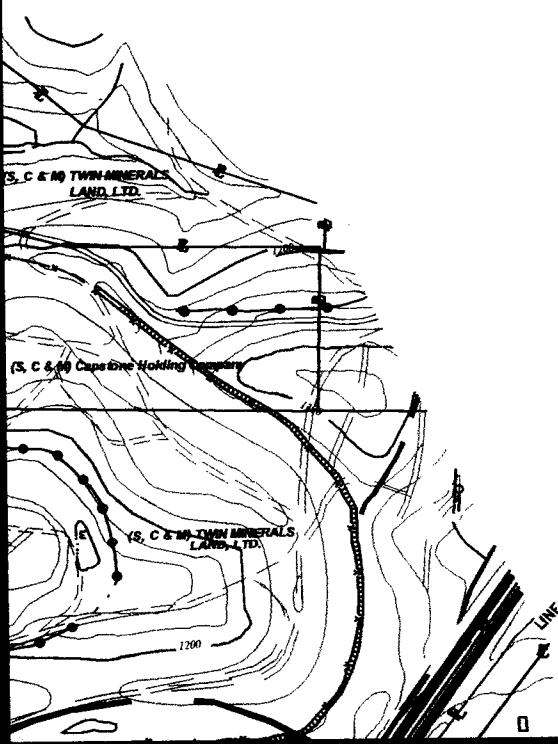


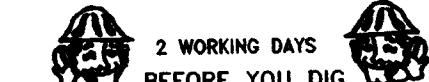
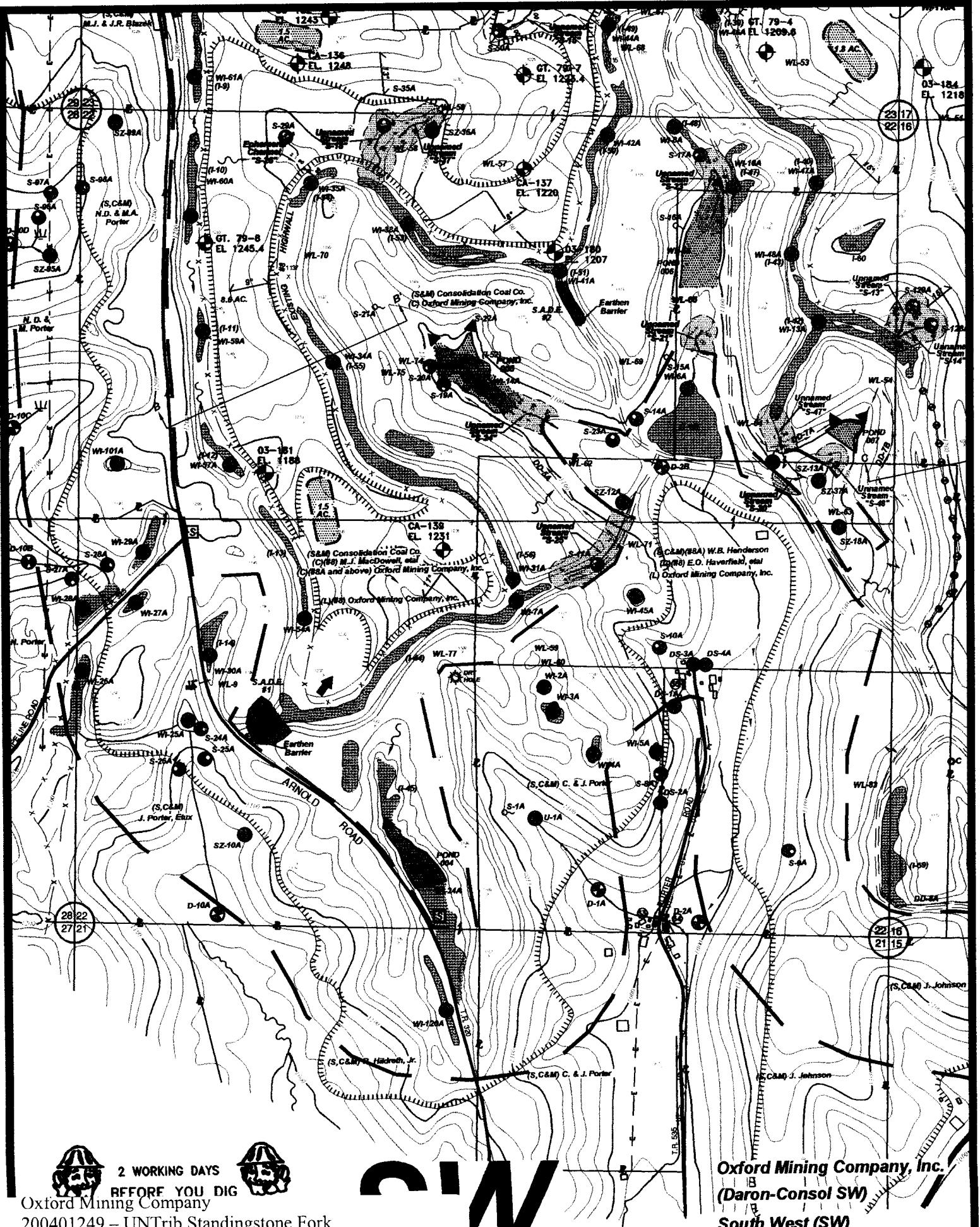
LOCATION MAP
SCALE 1" = 1 MILE
MAPPING FROM: JEWETT QUAD.
DRAINAGE BASIN: STILLWATER CREEK
AND SHORT CREEK

NE

LEGEND

- OCCUPIED DWELLING
- UNOCCUPIED DWELLING
- ☒ PUBLIC, COMMUNITY, INSTITUTIONAL BUILDING
- ▲ SCHOOL
- ✚ CEMETERY
- ✚ CHURCH
- ☒ COMMERCIAL/BUSINESS BUILDING
- WELL (GAS/OIL)
- ROADS INSIDE AND OUTSIDE PERMIT AREA
- TRAILS
- - PROPERTY LINE
- ← BEGIN MINING
- END MINING
- △ SLOPE MEASUREMENTS
- OLD TEST BORING
- NEW TEST BORING
- ▣ ENTRANCE SIGN
- FINAL HIGHWALL #8 AND #8A
- *** EXISTING #8, #8A & #9 HIGHWALL
- ◆◆◆ EXISTING BACKFILLED HIGHWALL
- · · COAL OUTCROP ELEV. OF #8 COAL = 1109±
ELEV. OF #8A COAL = 1137±
ELEV. OF #9 COAL = 1196±
- ||||| PREVIOUS MINING AREA
- () CROPLAND
- () AUGER AREA/HIGHWALL MINER AREA (#8 COAL)
- () PRIME FARMLAND
- () EXISTING WATER IMPOUNDMENT
- PERENNIAL STREAM
- INTERMITTENT STREAM
- CONSTRUCTED DRAINWAY
- DIRECTION OF FLOW
- 100' STREAM BUFFER ZONE
- ▲ WATER TREATMENT FACILITY
- () SEDIMENT POND
- () TOPSOIL / A.R.M. STORAGE
- () PROPOSED AFFECTED AREA
- (S) SURFACE OWNER
- (C) COAL OWNER
- (M) MINERAL OWNER





Oxford Mining Company
200401249 – UNTrib Standingstone Fork

Harrison County

Plan View – Proposed impacts - Southwest quadrant

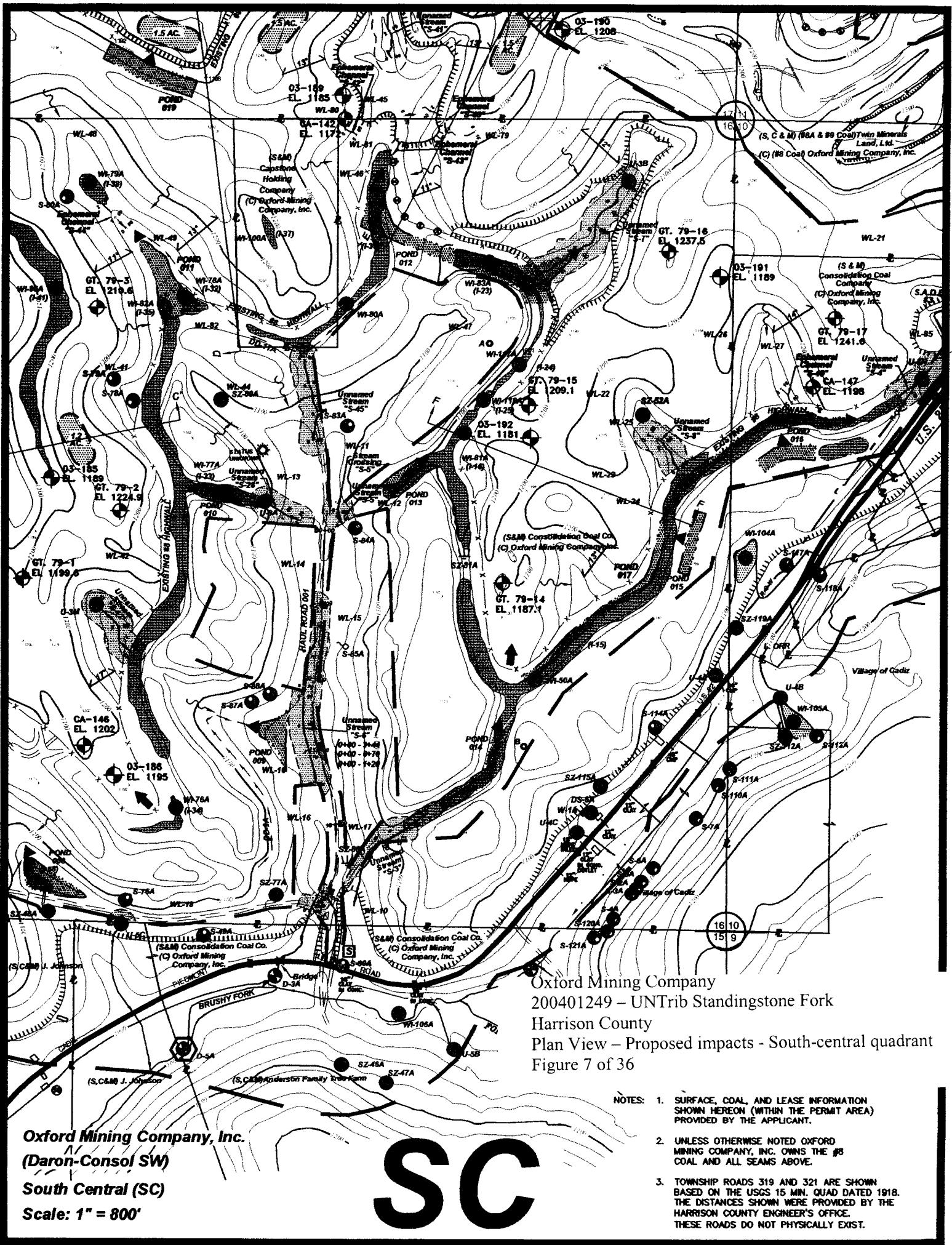
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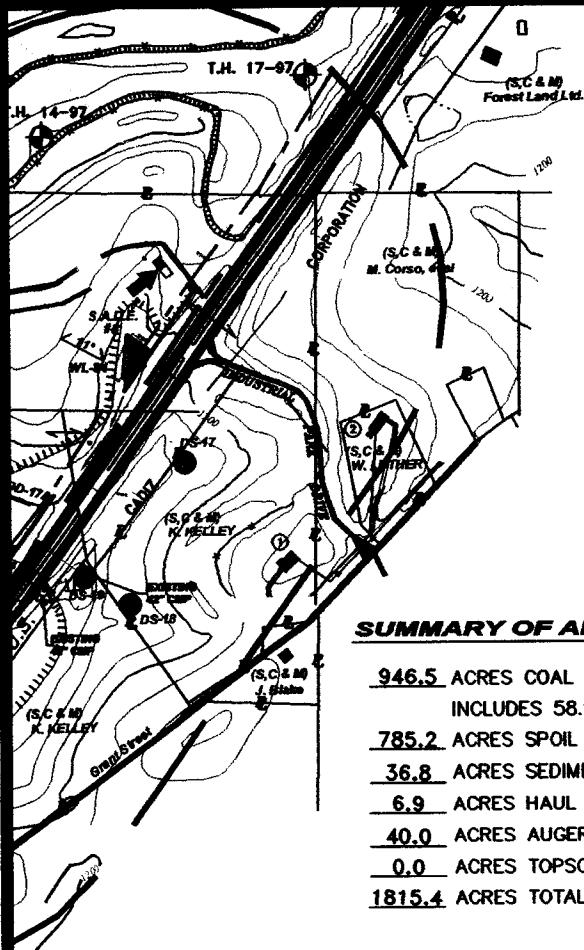


Oxford Mining Company, Inc.
(Daron-Consol SW)

South West (SW)

Scale: 1" = 800'





SE

SUMMARY OF Affected AREA

946.5 ACRES COAL REMOVAL (#8 AND #8A COAL)
 INCLUDES 58.9 ACRES #9 COAL REMOVAL
785.2 ACRES SPOIL STORAGE
36.8 ACRES SEDIMENT PONDS
6.9 ACRES HAUL ROADS
40.0 ACRES AUGERING (#8 COAL ONLY)
0.0 ACRES TOPSOIL (OUTSIDE COAL REMOVAL)
1815.4 ACRES TOTAL PROPOSED Affected AREA

SEDIMENT PONDS

POND #	SURF. AC.	AC. FT.
001	0.94	2.61
002	1.80	9.32
003	0.36	1.41
004	1.60	9.35
005	2.91	14.27
006	3.03	19.04
007	0.59	4.48
008	1.30	6.11
009	0.85	3.90
010	0.50	3.82
011	1.67	9.15
012	5.90	20.93
013	0.60	4.58
014	0.57	3.59
015	0.72	3.03
016	0.93	4.09
017	3.63	13.37
018	0.61	3.14
019	1.78	6.40
020	1.35	9.39
021	1.17	4.87
022	1.53	9.58
023	2.35	23.00
024	0.10	0.20

Oxford Mining Company, Inc.

(Daron-Consol SW)

South East (SE)

Scale: 1" = 800'

- (M) MINERAL OWNER
- (L) LESSEE
- 1000' LIMITS
- PUBLIC WATER LINE
- SEEP, SEEPAGE ZONE
- UPSTREAM SAMPLING STATION
- DOWNSTREAM SAMPLING STATION
- W- DRILLED WELL (NO LOG AVAILABLE)
- WL- DRILLED WELL (LOG AVAILABLE)
- DW- DUG WELL
- DS- DEVELOPED SPRING
- S- UNDEVELOPED SPRING
- WI- WATER IMPOUNDMENT
- BACKGROUND SAMPLING STATION
- DM- DEEP MINE ENTRY (WATER DISCHARGE)
- DEEP MINE ENTRY
- UNDERGROUND MINE LIMITS
Hn-33 Deep Mine, B & B Mine, B & B Coal Company, Pittsburgh #8 seam, Abandoned 1953.
- UNDERGROUND MINE LIMITS
Oak Park Mine, Consolidation Coal Co., #6 Coal Seam, Elev. 550, Abandoned 12/09/87.
- MONITORING STATION
- HOUSE NUMBERS FOR BLASTING PLAN
- AERIAL POWER LINE
- GAS LINE (COLUMBIA GAS TRANSMISSION)
- UNDERGROUND TELEPHONE
- AERIAL POWER AND TELEPHONE LINE
- PERMIT D-1181
- A.R.M. SOIL SAMPLE SITE
- S.A.D.E. #1 1.4 ACRES
- S.A.D.E. #2 0.5 ACRES
- S.A.D.E. #3 0.7 ACRES
- S.A.D.E. #4 0.3 ACRES
- SUMP
- HYDRIC SOIL STORAGE AREA (APPROX. LOCATION)

I, THE UNDERSIGNED, HEREBY CERTIFY THAT THIS MAP IS CORRECT, AND SHOWS TO THE BEST OF MY KNOWLEDGE AND BELIEF ALL THE INFORMATION REQUIRED BY CHAPTER 1513 OF THE REVISED CODE AND RULES ADOPTED THEREUNDER.

REG. SURVEYOR #

ACKNOWLEDGED

Oxford Mining Company

200401249 – UNTrib Standingstone Fork
Harrison County

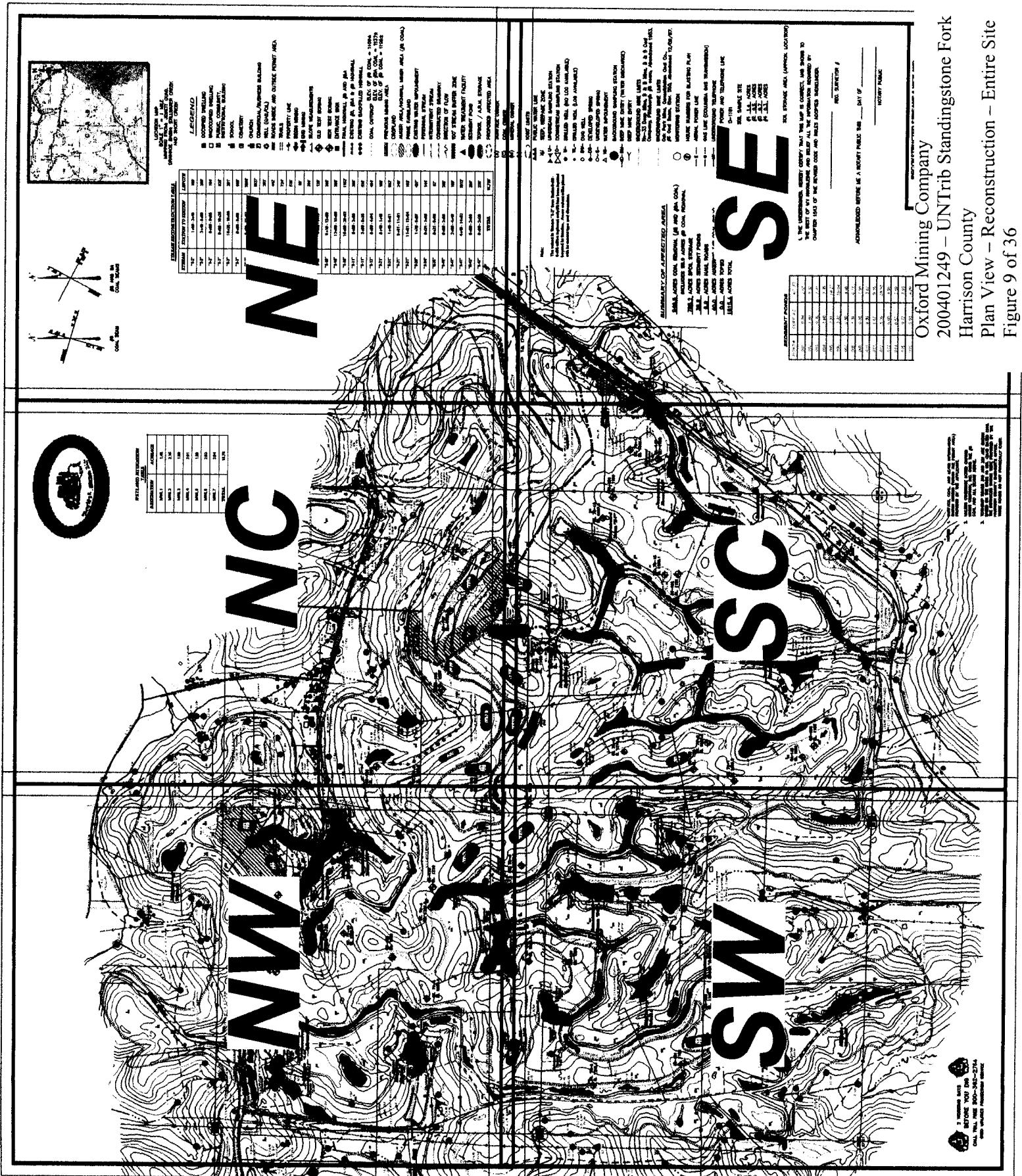
Plan View – Proposed impacts - Southeast quadrant
Figure 8 of 36

APPLICATION & HYDROLOGY MAP		
OXFORD MINING COMPANY, INC.		
SECTIONS: 10,15,16,17,18,22,23 & 24		T.- 10 R.- 5
TWP.- CADIZ		COUNTY: HARRISON
SCALE: 1" = 500'		CONTOUR INTERVAL: 20'
DATE PREPARED: JULY 15, 2004		DATE REVISED: Aug. 26, 2004
DATE REVISED: Sept. 21, 2005		DATE REVISED: Dec. 7, 2005
 Jack L. HAMILTON <i>& Associates, Inc.</i>		
342 High St., Box 471 Flushing, Ohio 43977 Ph: (740) 968-4947 Fax: (740) 968-4225 e-mail: hamilton@jst.net www.hamiltonandassoc.com		

APP RX. SCALE: 1" = 2100'.

LOCATION MAP

RECONSTRUCTED STREAMS & WETLAND



Oxford Mining Company, Inc.

(Daron-Consol SW)

North West (NW)

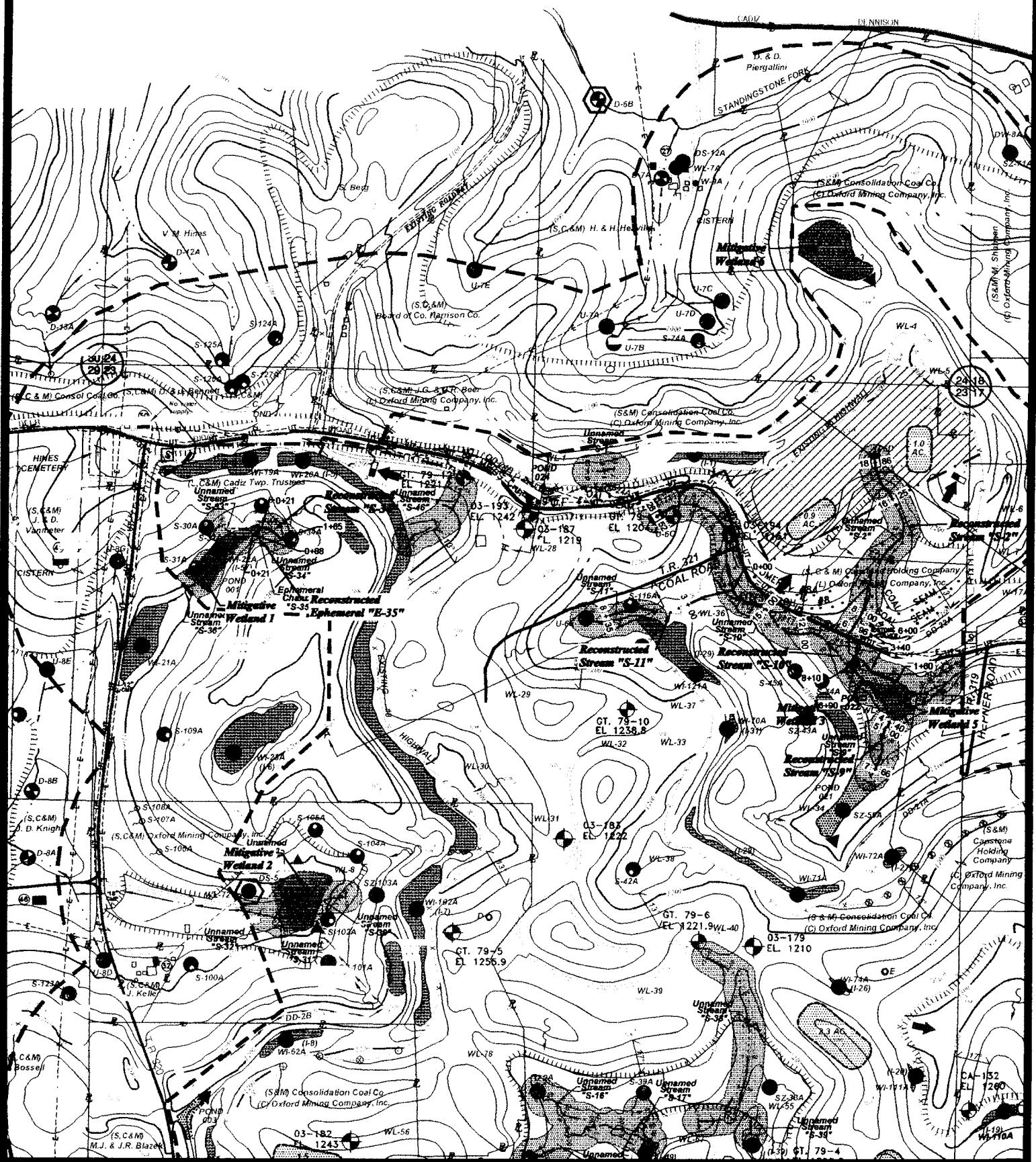
Scale: 1" = 800'

Oxford Mining Company
200401249 – UNTrib Standingstone Fork

Harrison County

Plan View – Reconstruction – Northwest quadrant
Figure 10 of 36

N
VV

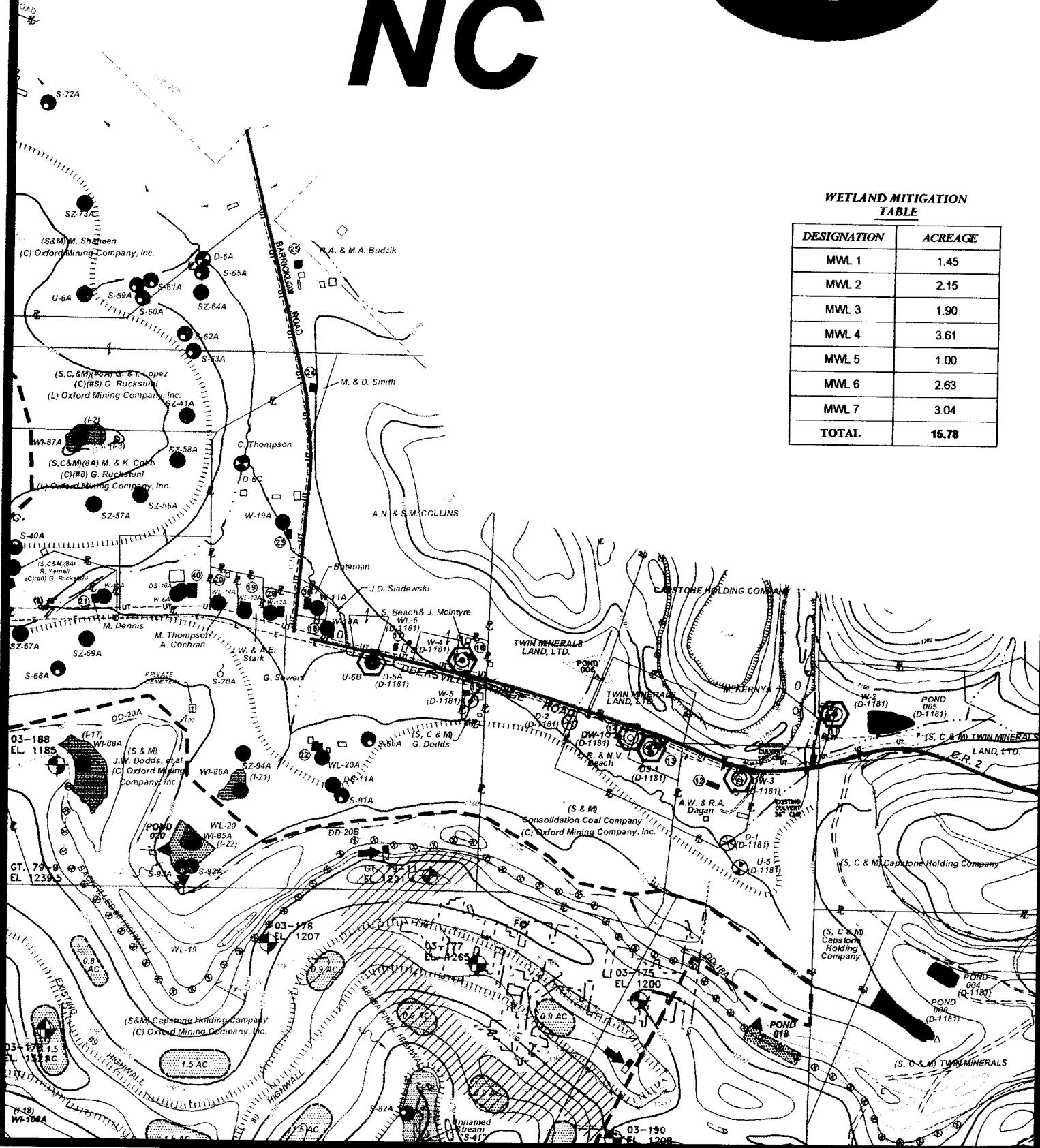


Oxford Mining Company, Inc.
(Daron-Consol SW)
North Central (NC)
Scale: 1" = 800'

Oxford Mining Company
 200401249 – UNTrib Standingstone Fork
 Harrison County
 Plan View – Reconstruction – North-central quadrant
 Figure 11 of 36



NC



WETLAND MITIGATION TABLE

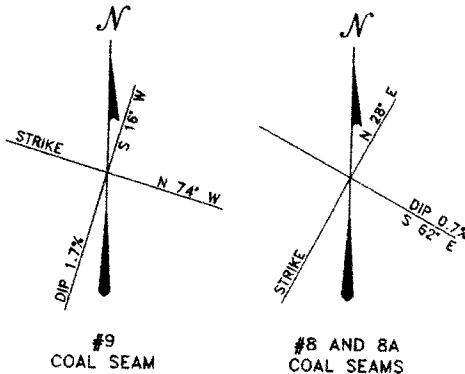
DESIGNATION	ACREAGE
MWL 1	1.45
MWL 2	2.15
MWL 3	1.90
MWL 4	3.61
MWL 5	1.00
MWL 6	2.63
MWL 7	3.04
TOTAL	15.78

Oxford Mining Company, Inc.

(Daron-Consol SW)

North East (NE)

Scale: 1" = 800'



NE

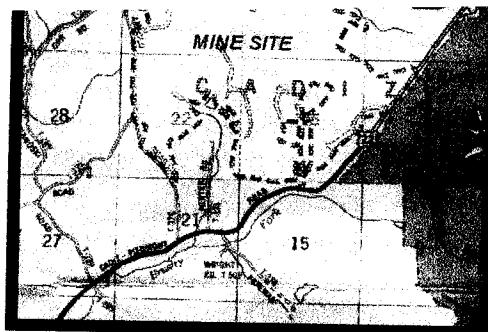
Oxford Mining Company

200401249 – UNTrib Standingstone Fork

Harrison County

Plan View – Reconstruction – Northeast quadrant

Figure 12 of 36



LOCATION MAP

SCALE 1" = 1 MILE

MAPPING FROM: JEWETT QUAD.

DRAINAGE BASIN: STILLWATER CREEK

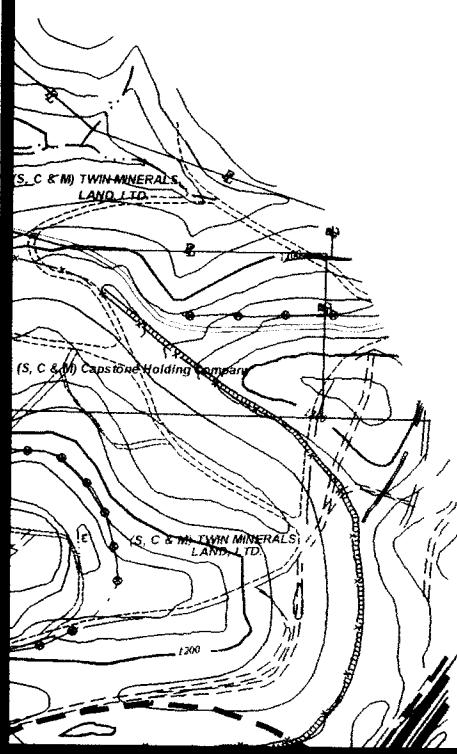
AND SHORT CREEK

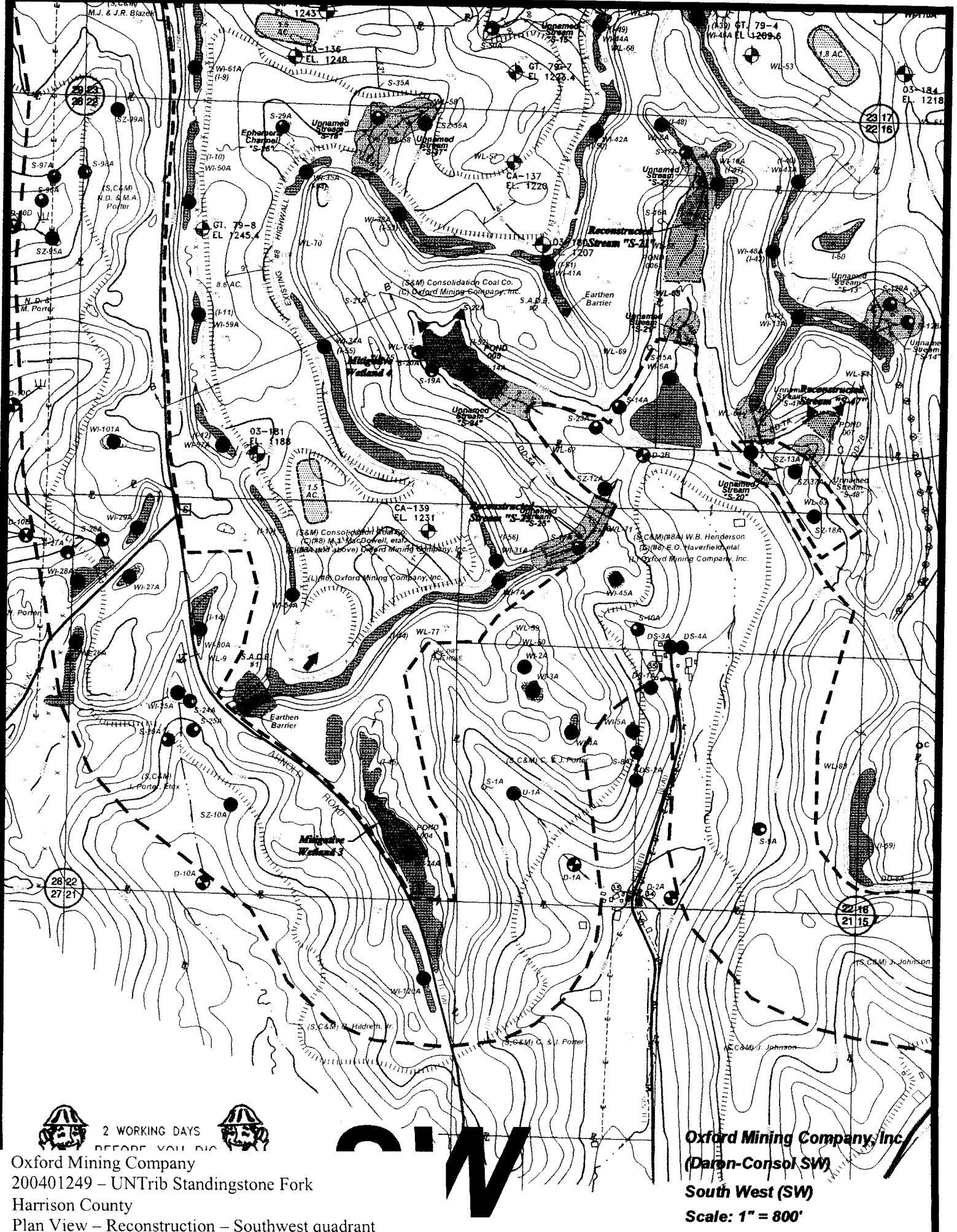
STREAM RECONSTRUCTION TABLE

STREAM	STATION TO STATION	LENGTH
"S-2"	1+60 - 3+40	180'
"S-2"	3+40 - 6+00	260'
"S-2"	6+96 - 8+00	104'
"S-2"	8+00 - 16+25	825'
"S-2"	16+25 - 18+86	261'
"S-3"	0+00 - 6+09	609'
"S-3"	6+09 - 37+07	3098'
"S-3"	37+07 - 56+34	1927'
"S-3"	56+34 - 59+37	303'
"S-3"	59+37 - 63+79	442'
"S-7"	3+06 - 10+30	724'
"S-8"	0+00 - 5+10	510'
"S-9"	4+40 - 5+00	60'
"S-9"	5+00 - 7+66	266'
"S-10"	6+90 - 8+10	120'
"S-10"	8+10 - 12+00	390'
"S-10"	12+00 - 15+00	300'
"S-10"	15+00 - 26+52	1152'
"S-11"	0+00 - 3+00	300'
"S-11"	3+00 - 8+35	535'
"S-12"	0+00 - 4+94	494'
"S-21"	0+49 - 1+49	100'
"S-21"	1+49 - 9+51	802'
"S-21"	9+51 - 11+91	240'
"S-21"	11+91 - 13+54	163'
"S-25"	1+70 - 6+07	437'
"S-34"	0+21 - 1+65	144'
"E-35"	0+21 - 0+88	67'
"S-41"	0+00 - 2+60	260'
"S-41"	2+60 - 4+40	180'
"S-41"	4+40 - 14+52	1012'
"E-42"	0+00 - 2+68	268'
"S-47"	0+00 - 2+20	220'
TOTAL		16,753'

LEGEND

- [Solid black square] OCCUPIED DWELLING
- [Open square] UNOCCUPIED DWELLING
- [Crossed-out square] PUBLIC, COMMUNITY, INSTITUTIONAL BUILDING
- [School building icon] SCHOOL
- [Cemetery icon] CEMETERY
- [Church icon] CHURCH
- [Commercial building icon] COMMERCIAL/BUSINESS BUILDING
- [Well icon] WELL (GAS/OIL)
- [Solid black line] ROADS INSIDE AND OUTSIDE PERMIT AREA
- [Dashed line] TRAILS
- [Line with arrowheads] PROPERTY LINE
- [Left-pointing arrow] BEGIN MINING
- [Right-pointing arrow] END MINING
- [Slope measurement icon] SLOPE MEASUREMENTS
- [Old test boring icon] OLD TEST BORING
- [New test boring icon] NEW TEST BORING
- [Entrance sign icon] ENTRANCE SIGN
- [Dashed line with arrows] FINAL HIGHWALL #8 AND #8A
- [Three asterisks] EXISTING #8, #8A & #9 HIGHWALL
- [Three circles] EXISTING BACKFILLED HIGHWALL
- [Dashed line with dots] PREVIOUS MINING AREA
- [Hatched area] CROPLAND
- [Hatched area] AUGER AREA/HIGHWALL MINER AREA (#8 COAL)
- [Hatched area] PRIME FARMLAND
- [Hatched area] EXISTING WATER IMPOUNDMENT
- [Perennial stream icon] PERENNIAL STREAM
- [Intermittent stream icon] INTERMITTENT STREAM
- [Constructed drainway icon] CONSTRUCTED DRAINWAY
- [Flow direction icon] DIRECTION OF FLOW
- [100' stream buffer zone icon] 100' STREAM BUFFER ZONE
- [Water treatment facility icon] WATER TREATMENT FACILITY
- [Sediment pond icon] SEDIMENT POND
- [Topsoil storage icon] TOPSOIL / A.R.M. STORAGE
- [Proposed affected area icon] PROPOSED AFFECTED AREA
- (S) SURFACE OWNER
- (C) COAL OWNER
- (M) MINERAL OWNER

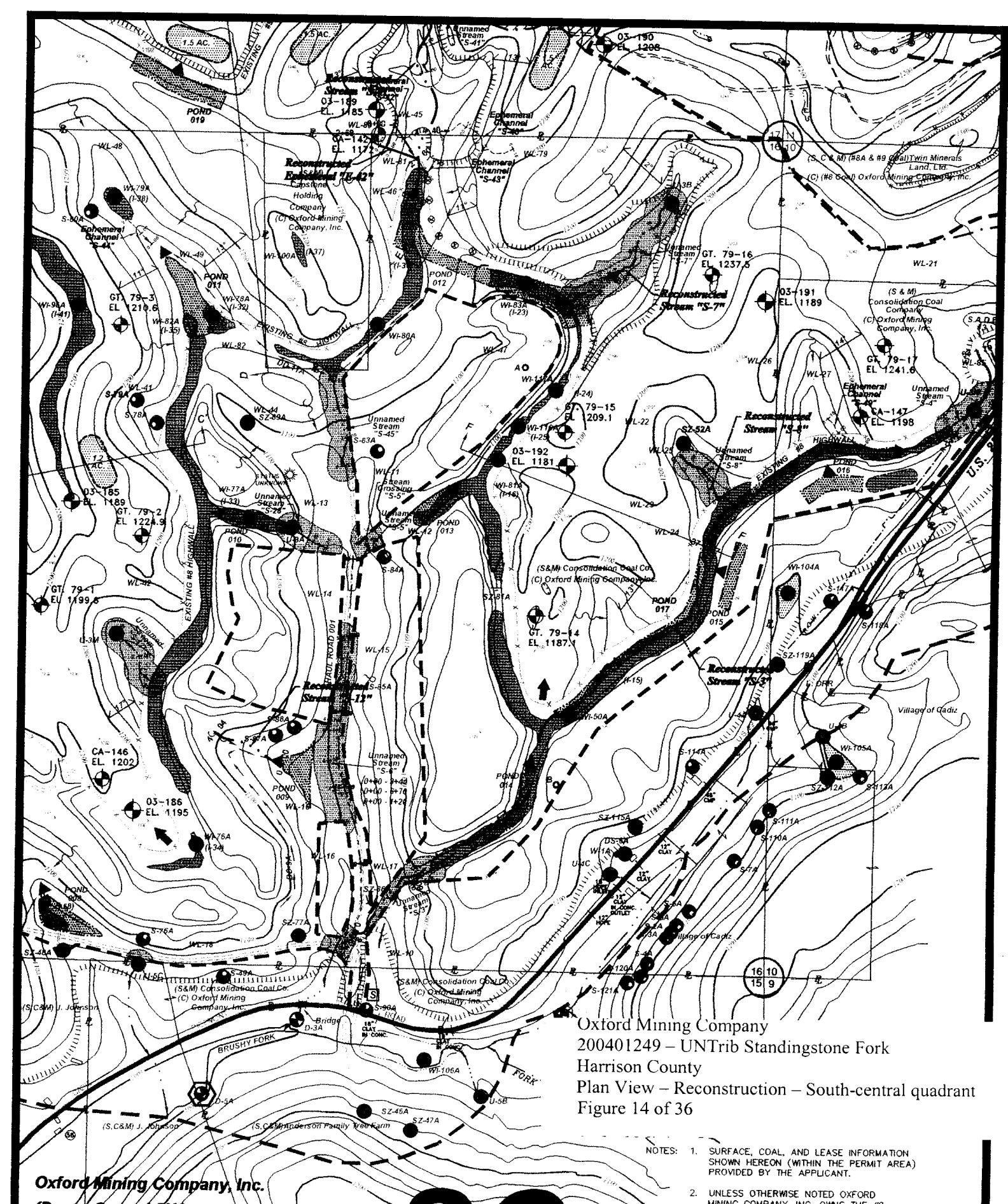




2 WORKING DAYS
BEFORE YOU DIG



Oxford Mining Company
200401249 – UNTrib Standingstone Fork
Harrison County
Plan View – Reconstruction – Southwest quadrant
Figure 13 of 36

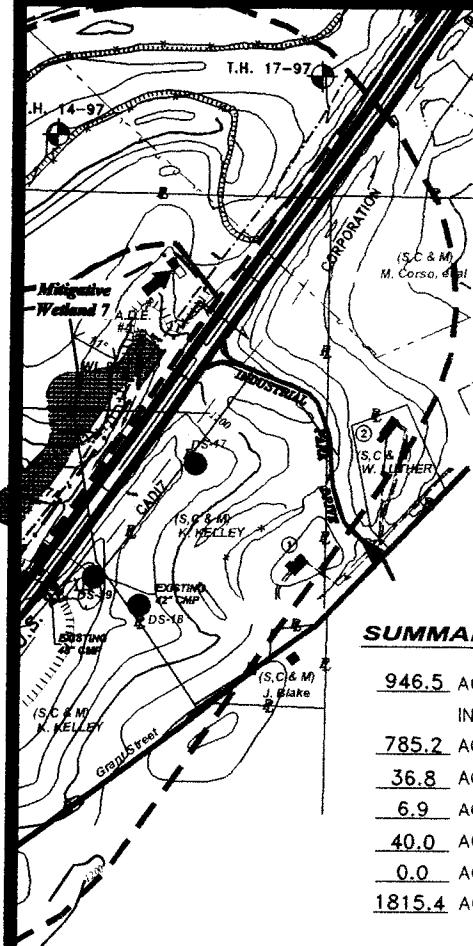


Oxford Mining Company, Inc.
(Daron-Consol SW)
South Central (SC)
Scale: 1" = 800'

NOTES: 1. SURFACE, COAL, AND LEASE INFORMATION SHOWN HEREON (WITHIN THE PERMIT AREA) PROVIDED BY THE APPLICANT.

2. UNLESS OTHERWISE NOTED OXFORD MINING COMPANY, INC. OWNS THE #8 COAL AND ALL SEAMS ABOVE.
3. TOWNSHIP ROADS 319 AND 321 ARE SHOWN BASED ON THE USGS 15 MIN. QUAD DATED 1918. THE DISTANCES SHOWN WERE PROVIDED BY THE HARRISON COUNTY ENGINEER'S OFFICE. THESE ROADS DO NOT PHYSICALLY EXIST.

SC



Note:

The culvert in Stream "S-2" from Station 6+00 - 6+96 will be replaced only if it has been impaired beyond its function. A new culvert will be placed with its current type and dimensions.

SE

SUMMARY OF AFFECTED AREA

946.5 ACRES COAL REMOVAL (#8 AND #8A COAL)
INCLUDES 58.9 ACRES #9 COAL REMOVAL
785.2 ACRES SPOIL STORAGE
36.8 ACRES SEDIMENT PONDS
6.9 ACRES HAUL ROADS
40.0 ACRES AUGERING (#8 COAL ONLY)
0.0 ACRES TOPSOIL (OUTSIDE COAL REMOVAL)
1815.4 ACRES TOTAL PROPOSED AFFECTED AREA

SEDIMENT PONDS

POND #	SURF. AC.	AC. FT.
001	0.94	2.61
002	1.80	9.32
003	0.36	1.41
004	1.60	9.35
005	2.91	14.27
006	3.03	19.04
007	0.59	4.48
008	1.30	6.11
009	0.85	3.90
010	0.50	3.82
011	1.67	9.15
012	5.90	20.93
013	0.60	4.58
014	0.57	3.59
015	0.72	3.03
016	0.93	4.09
017	3.63	13.37
018	0.61	3.14
019	1.78	6.40
020	1.35	9.39
021	1.17	4.87
022	1.53	9.58
023	2.35	23.00
024	0.10	0.20

Oxford Mining Company, Inc.
(Daron-Consol SW)
South East (SE)
Scale: 1" = 800'

- (M) MINERAL OWNER
- (L) LESSEE
- > 1000' LIMITS
- ▲▲▲ PUBLIC WATER LINE
- SEEP, SEEPAGE ZONE
- U- UPSTREAM SAMPLING STATION
- D- DOWNSTREAM SAMPLING STATION
- W- DRILLED WELL (NO LOG AVAILABLE)
- WL- DRILLED WELL (LOG AVAILABLE)
- DW- DUG WELL
- DS- DEVELOPED SPRING
- ~S- UNDEVELOPED SPRING
- △ WI- WATER IMPOUNDMENT
- BACKGROUND SAMPLING STATION
- > DM- DEEP MINE ENTRY (WATER DISCHARGE)
- > DEEP MINE ENTRY
- UNDERGROUND MINE LIMITS
Hn-33 Deep Mine, B & B Mine, B & B Coal Company, Pittsburgh #8 seam, Abandoned 1953.
- UNDERGROUND MINE LIMITS
Oak Park Mine, Consolidation Coal Co., #6 Coal Seam, Elev. 550, Abandoned 12/09/87.
- MONITORING STATION
- # HOUSE NUMBERS FOR BLASTING PLAN
- E --- AERIAL POWER LINE
- G --- GAS LINE (COLUMBIA GAS TRANSMISSION)
- UT--- UNDERGROUND TELEPHONE
- ET--- AERIAL POWER AND TELEPHONE LINE
- > PERMIT D-1181
- F○ A.R.M. SOIL SAMPLE SITE
- S.A.D.E. #1 1.4 ACRES
- S.A.D.E. #2 0.5 ACRES
- S.A.D.E. #3 0.7 ACRES
- S.A.D.E. #4 0.3 ACRES
- SUMP
- HYDRIC SOIL STORAGE AREA (APPROX. LOCATION)

I, THE UNDERSIGNED, HEREBY CERTIFY THAT THIS MAP IS CORRECT, AND SHOWS TO THE BEST OF MY KNOWLEDGE AND BELIEF ALL THE INFORMATION REQUIRED BY CHAPTER 1513 OF THE REVISED CODE AND RULES ADOPTED THEREUNDER.

REG. SURVEYOR #

ACKNOWLEDGED BEFORE ME AND NOTARY PUBLIC THIS DAY OF

Oxford Mining Company

200401249 – UNTrib Standingstone Fork

Harrison County

Plan View – Reconstruction – Southeast quadrant
Figure 15 of 36

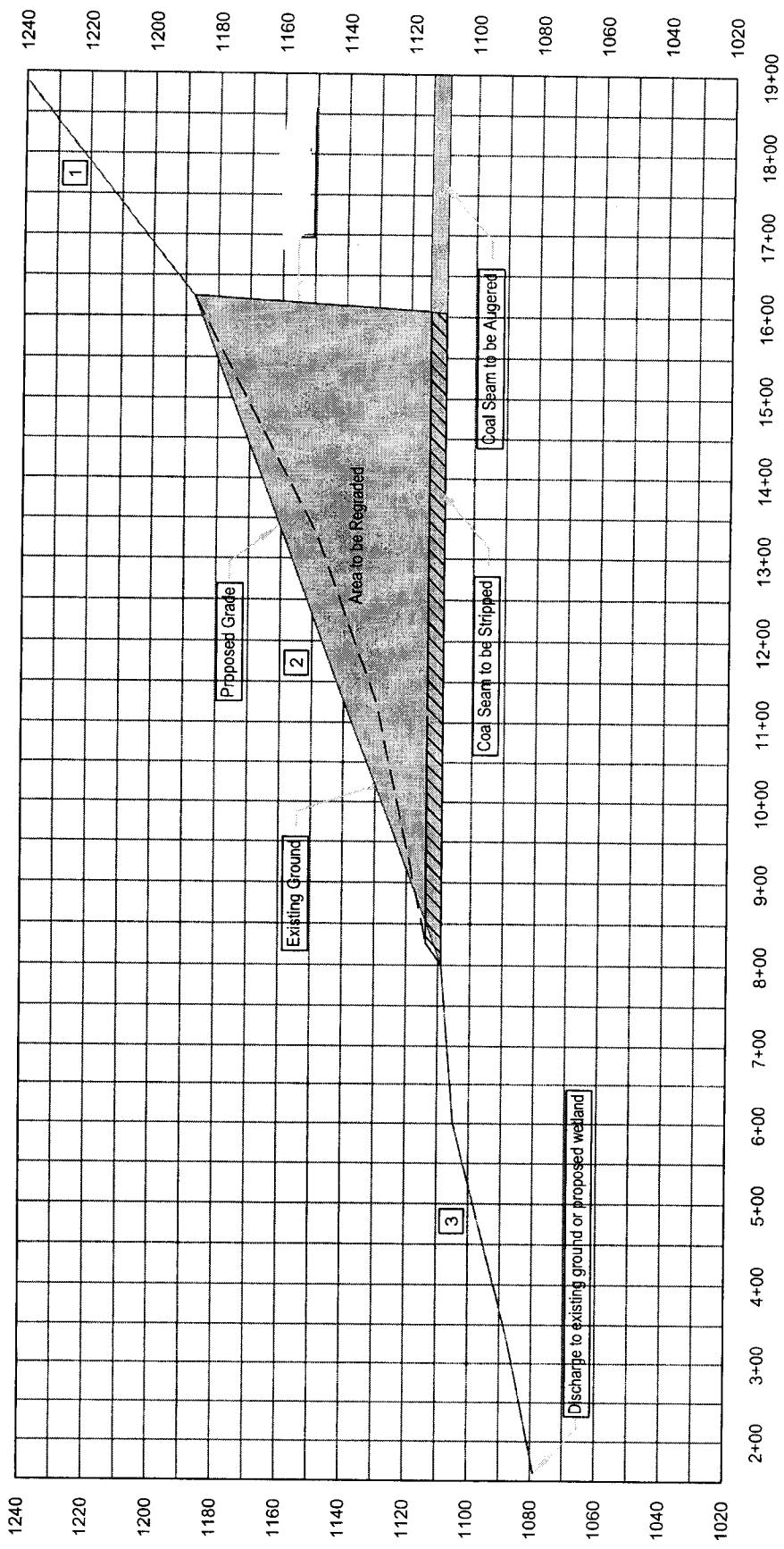
RECONSTRUCTED STREAMS & WETLAND LOCATION MAP

OXFORD MINING COMPANY, INC.

SECTIONS: 10,15,16,17,18,22,23 & 24	T.- 10	R.- 5
TWP.- CADIZ	COUNTY: HARRISON	
SCALE: 1" = 500'	CONTOUR INTERVAL: 20'	
DATE PREPARED: July 1, 2004	DATE REVISED: 9-19-05	



342 High St., Box 471
Flushing, Ohio 43977
Ph: (740) 968-4247
Fax: (740) 968-4225
e-mail: hamilton@lst.net
www.hamiltonandassoc.com



U.S. ARMY CORPS OF ENGINEERS
TYPICAL STREAM RECONSTRUCTION PROFILE

Applicant: OXFORD MINING COMPANY
DARON CONSOL SW

Township: CADIZ	County: HARRISON
Horiz. Scale: 1" = 200'	Vert. Scale: 1" = 50'
Date: 1/13/06	Date Revised:
Comm #861-9-1	

Jack A.
Oxford Mining Company
200401249 – UNTrib Standingstone Fork
Harrison County

- [1]** Stream below coal removal will be impacted by sediment transport or spoil fill. Streams will be reconstructed (if necessary) within the original banks.
- [2]** Streams removed by mining will be reconstructed along the regraded profile. Per government rules, the regraded section must be to approximate original contour.
- [3]** Stream above the highway will be impacted by sediment transport only. These streams will be reconstructed (if necessary) within the original banks.

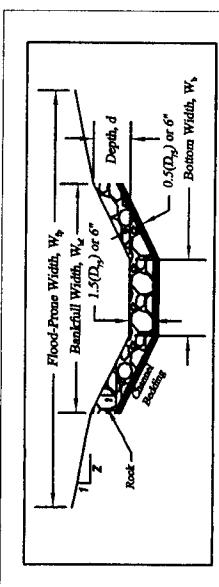
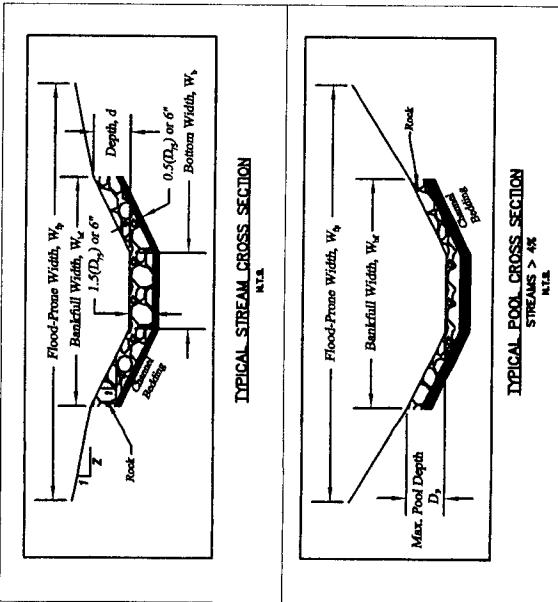
Cross-section – Typical stream reconstruction

Figure 16 of 36

DETAIL DIMENSIONS											
Stream	Station*	To	Q ₁₀₀	Q ₅₀	Q ₂₅	Q ₁₀	W ₁₀ (ft)	W ₅₀ (ft)	W ₂₅ (ft)	W ₁₀ (ft)	D ₅₀
S1	6+00	6+00	11.2	54.2	2.0	5.2	8.9	24.5	38.5	14.3	10.0
S2	6+00	6+07	32.9	158.7	0.6	11.4	14.4	N/A	N/A	23.1	1.3
S3	37+07	38+34	86.7	1.0	8.4	1.3	N/A	N/A	27.0	28.9	1.3
S4	58+37	63+57	32.9	158.7	1.6	7.9	12.0	N/A	N/A	18.2	1.3
S5	10+30	22.7	105.3	2.0	2.8	11.5	N/A	N/A	N/A	23.3	1.3
S6	4+00	5+00	6.2	38.4	3.2	2.8	6.5	N/A	N/A	10.4	9.1
S7	6+80	8+10	28.2	132.2	1.9	6.0	10.9	N/A	N/A	17.5	15.3
S8	0+00	3+00	15.3	71.2	3.5	5.4	6.0	N/A	N/A	14.4	12.6
S9	0+48	1+48	7.5	36.8	2.0	3.8	7.6	N/A	N/A	12.2	10.7
S10	1+49	2+51	7.5	36.8	1.1	3.0	7.4	N/A	N/A	11.9	10.4
S11	9+51	11+91	7.5	36.8	2.1	3.6	7.6	N/A	N/A	12.2	10.7
S12	11+91	13+34	7.5	36.8	2.5	3.5	7.3	N/A	N/A	11.7	10.3
S13	0+00	2+60	1.5	148.4	1.5	7.7	11.8	N/A	N/A	18.9	18.6
S14	2+60	4+40	2.0	148.4	2.0	14.6	22.0	N/A	N/A	20.7	18.1
S15	4+40	14+52	1.7	148.4	1.7	11.5	11.5	N/A	N/A	18.4	18.1
S16	0+00	2+20	4.0	12.1	4.0	1.4	4.6	N/A	N/A	7.4	6.5
S17	0+00	3+40	11.2	54.2	5.0	8.2	9.1	N/A	N/A	11.9	11.9
S18	3+40	4+40	11.2	54.2	6.5	7.4	8.7	N/A	N/A	11.4	10.5
S19	4+40	6+25	11.2	54.2	9.5	8.5	8.1	N/A	N/A	10.6	9.8
S20	18+25	18+86	11.2	54.2	18.9	5.3	6.6	N/A	N/A	8.6	8.0
S21	0+00	6+09	32.9	158.7	0.7	14.3	12.0	N/A	N/A	15.6	14.4
S22	58+37	32.9	158.7	6.6	18.5	12.9	N/A	N/A	16.8	15.5	25.8
S23	0+00	5+10	7.7	35.0	20.0	4.0	5.7	N/A	N/A	7.5	6.9
S24	5+10	6+07	6.2	35.4	4.5	6.7	N/A	N/A	N/A	7.5	7.5
S25	6+07	12+00	28.2	132.2	6.4	14.9	12.3	N/A	N/A	18.0	8.7
S26	12+00	15+40	28.2	132.2	5.3	16.0	12.7	N/A	N/A	18.6	15.3
S27	15+40	26+42	18.8	83.1	2.1	8.6	8.8	N/A	N/A	11.5	10.6
S28	4+00	4+35	15.3	71.2	4.3	10.5	10.5	N/A	N/A	13.7	12.0
S29	4+35	12+44	12.4	59.2	8.1	7.4	6.7	N/A	N/A	11.4	12.6
S30	12+44	14+70	5.9	22.0	4.6	5.3	7.3	N/A	N/A	9.5	8.8
S31	14+70	14+85	3.0	13.1	2.0	4.0	10.5	9.2	N/A	9.4	8.0
S32	14+85	2+68	0.3	1.0	1.0	1.4	0.5	N/A	N/A	5.2	4.8
S33	2+68	0+21	0.3	54.2	2.8	1.0	3.8	N/A	N/A	4.0	4.0
S34	0+21	0+00	0.8	54.2	1.0	1.4	0.5	N/A	N/A	6.5	4.8
S35	0+00	0+21	0.8	54.2	2.8	1.0	4.0	N/A	N/A	4.0	4.0

NOTE:
STATIONING SHOWN HEREON REFLECTS SETBACKS FROM
EXISTING CONSTRUCTION LINE AND NOT THE PRE-RECONSTRUCTED
STATIONING LINE. STREAMLINE LOCATION IS FOR
RECONSTRUCTED STREAMLINE LOCATION AND STREAMLINE NUMBER

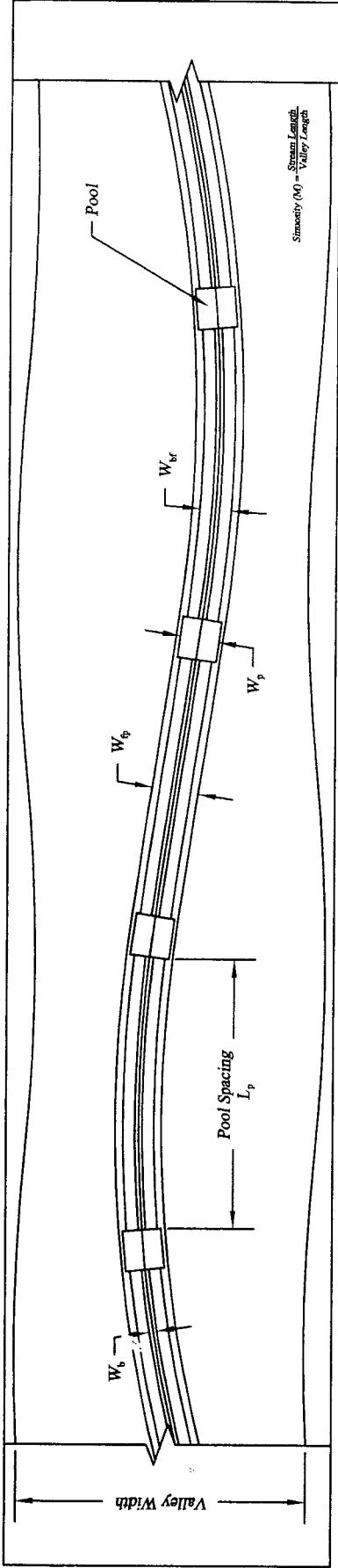
Streamline To Station* To Q₁₀₀ (cfs) Q₅₀ (cfs) Q₂₅ (cfs) Q₁₀ (cfs) W₁₀(ft) W₅₀(ft) W₂₅(ft) Depth (ft) Top Width (ft) Vegetative Lining



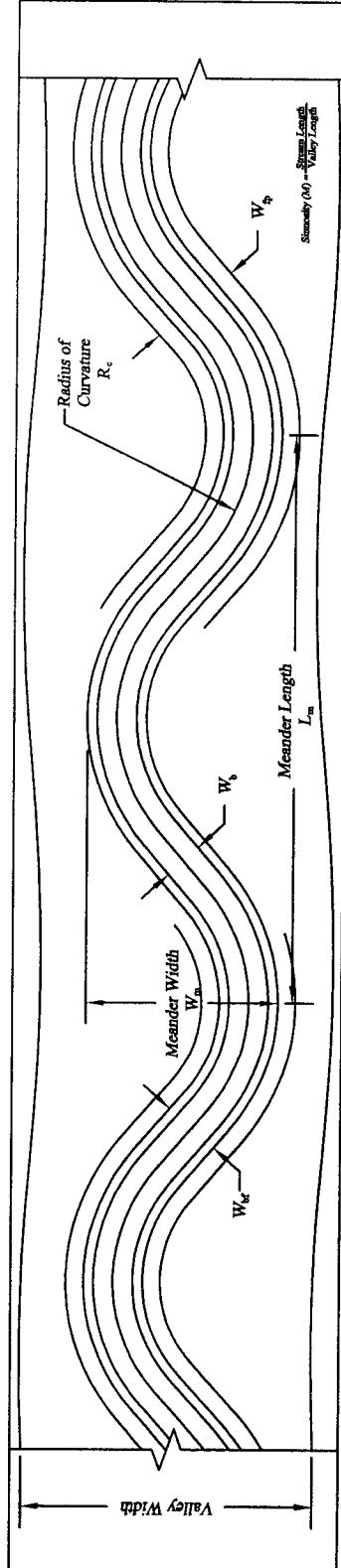
Oxford Mining Company
200401249 – UNTRIB Standingstone Fork
Harrison County
Stream reconstruction – dimension details
Figure 17 of 36

U.S. ARMY CORPS OF ENGINEERS MITIGATION CHANNEL SECTIONS & PLAN VIEW											
Applicant: OXFORD MINING COMPANY		DARON CONSOL SW		Township: CADIZ		County: HARRISON		SCALE: AS NOTED			
Date: 12/09/05	Comm #: 861-9-1										
342 High St., Box 471 Flushing, Ohio 43977 Ph(740) 368-4947 Fax(740) 968-1225 e-mail hamiltonandassoc.com www.hamiltonandassoc.com											





TYPICAL STREAM PLAN VIEW
STREAMS $> 4x$
N.T.S.



TYPICAL STREAM PLAN VIEW
STREAMS $< 4x$
N.T.S.

1. All rock shell be composed of durable material.
2. 25% of the rock, by volume, shall be in sizes slightly larger than the D₁₀, and the remaining 75% shall be smaller, including sufficient sand and gravel to fill the voids around the larger rock. The rock shall be placed in the backfill channel portion by over excavating and placing it a depth of 1.5 times the D₁₀ size. Properly sized bedding shall be placed to a thickness of approximately one half of the D₁₀ thickness, but typically not less than six inches. Filter fabric (such as Monot 14#NY) may be used under the bedding material to minimize piping. Additional "top dressing" with sand and gravel may be necessary to fill the voids around larger rock.
3. Reconstrained streambeds will be designed in accordance with the Ohio EPA, ODNR jointly approved design procedure dated November 1999.
4. Values shown for W_b and D₁₀ are the dimensions of the 100-year flood channel based upon the 100-year flood hazard chart for "T" areas based determined by the design procedure.
5. Field construction should be depicted by an individual knowledgeable in the design procedure and construction methods. Design values shown in tables on this sheet may need to be adjusted in the field to meet constraints of construction equipment, materials, time, and topography.
6. The design dimensions, given in this procedure provide a starting point for determining the geometry of the stream, but they do not represent an end point. Field adjustments to the design values must be anticipated.

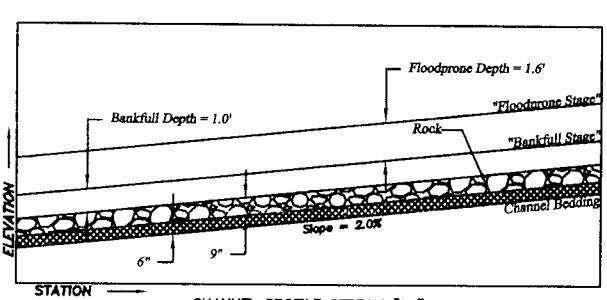
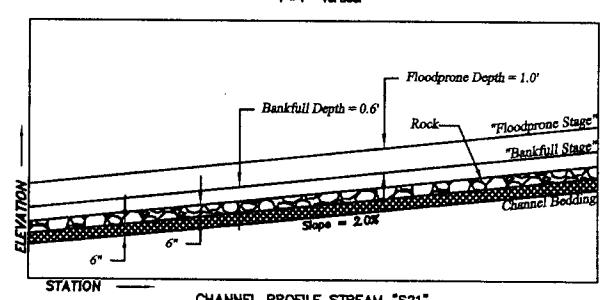
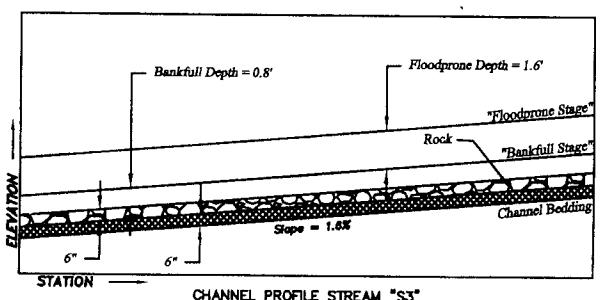
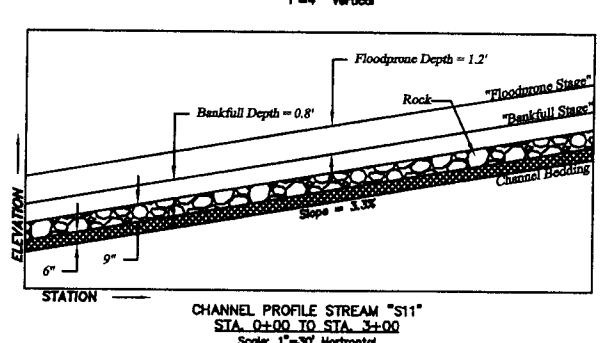
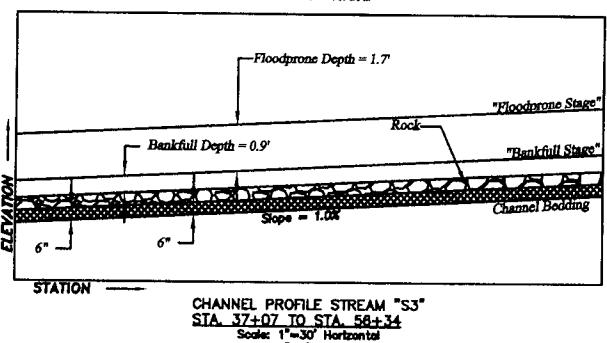
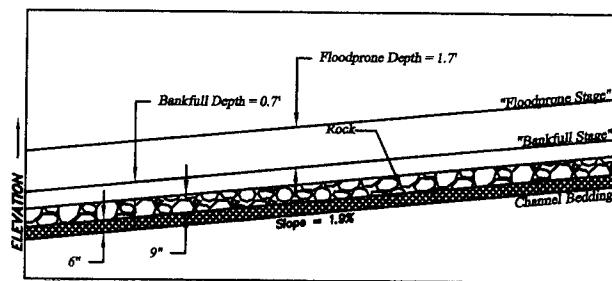
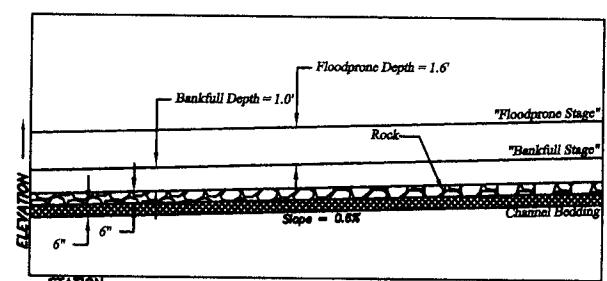
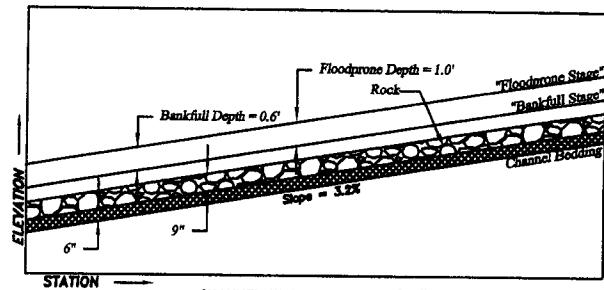
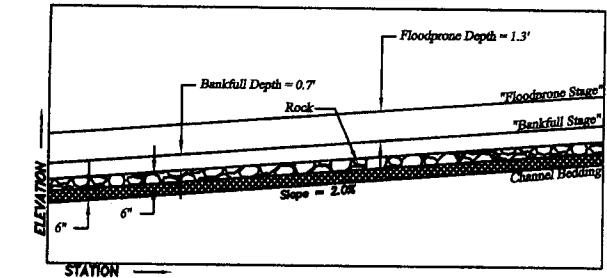
Q ₁₀₀₋₄	1.5 year, 6 hour Storm Discharge (cfs)
Q ₁₀₀₋₅	100 year, 5 hour Storm Discharge (cfs)
S _c	Channel Slope (%)
A	Cross Sectional Area of Channel Riffle (ft ²)
W _r	"Bankfull" Width (ft.)
W _b	"Flood-prone" Width (ft.)
T	Maximum Riffle Depth (ft.)
d	Bottom Width (ft.)
W _s	Depth of "Flood-prone" Area (ft.)
D ₁₀	Total Depth (ft.)
Z	Slope of "Flood-prone" Channel Banks (1/1"Z" ft.)
R _c	Radius of Curvature (ft.)
L _m	Meander Length (ft.)
W _m	Meander Width (ft.)
D _p	Depth of Pool (ft.)
W _p	Width of Pool (ft.)
L _p	Length of Pool (ft.)
N _M	Sinuosity
D ₁₀	Rock Size - 75% or smaller (in.)

Oxford Mining Company
200401249 – UNtrib Standingstone Fork
Harrison County
Plan View – Typical stream reconstruction
Figure 18 of 36

MITIGATION CHANNEL SECTIONS & PLAN VIEW	
Applicant: OXFORD MINING COMPANY	DAFCON CONSOL SW
Township: CADIZ	County: HARRISON
SCALE: AS NOTED	
Date: 12/09/05	Comm #: 861-9-1
342 High St., Box 471 Flushing, Ohio 43977 Ph (740) 968-4947 Fax (740) 968-4225 e-mail: hamilton@1st.net www.hamiltonandassociates.com	

*Dee A. Hamilton, P.E.
Hamilton & Associates, Inc.*

HAMILTON



Oxford Mining Company
200401249 – UNTrib Standingstone Fork
Harrison County
Mitigation channel section and plan views (1)
Figure 19 of 36

U.S. ARMY CORPS OF ENGINEERS	
MITIGATION CHANNEL SECTIONS & PLAN VIEW	

Applicant: OXFORD MINING COMPANY

DARON CONSOL SW

Township: CADIZ

County: HARRISON

SCALE: AS NOTED

Date: 12/09/05

Comm #: 861-9-1



342 High St., Box 471

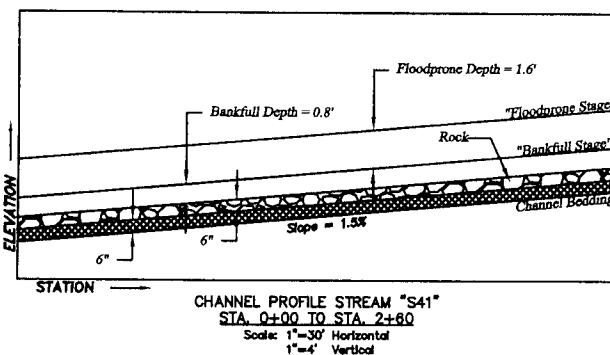
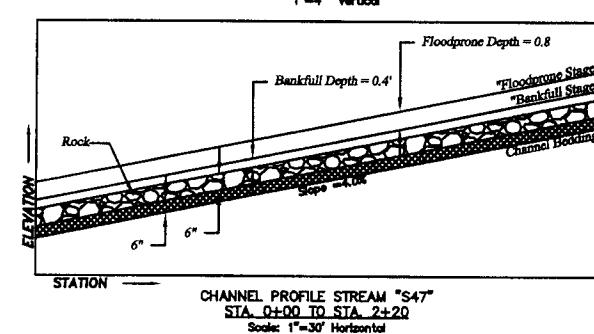
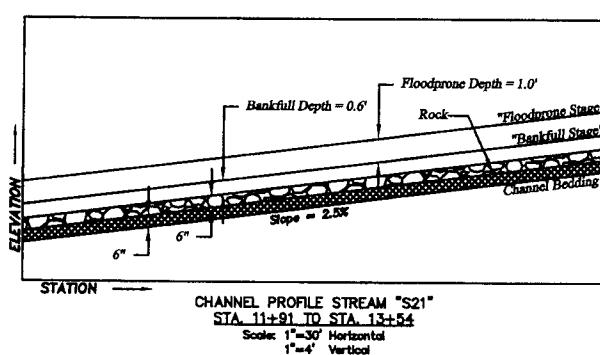
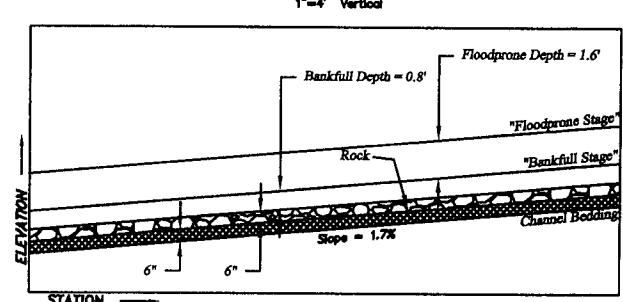
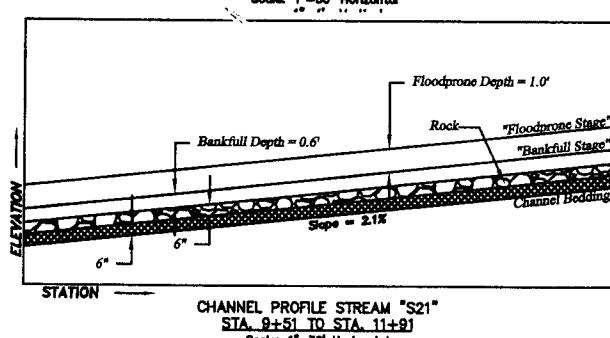
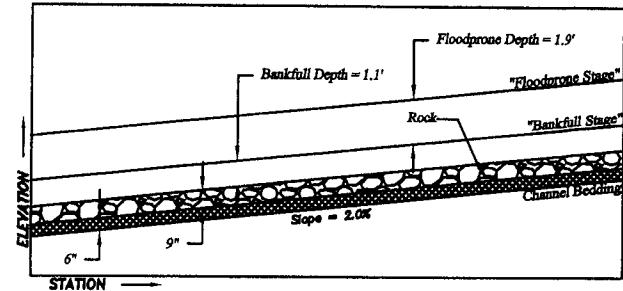
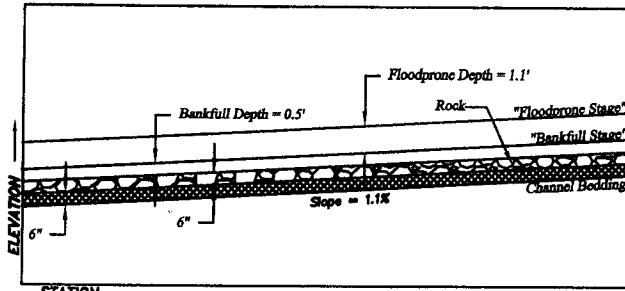
Flushing, Ohio 43977

Ph (740) 968-4947

Fax (740) 968-4225

e-mail hamilton@lst.net

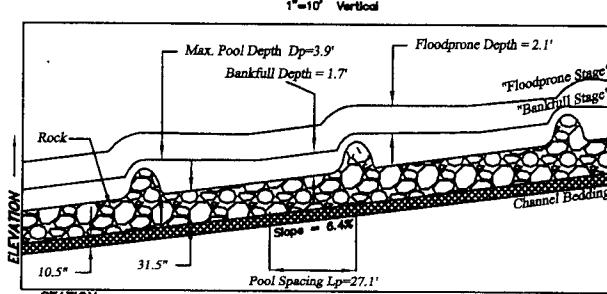
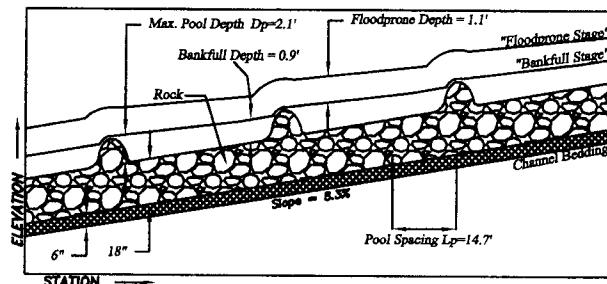
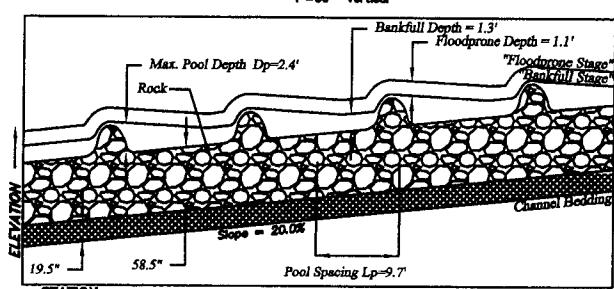
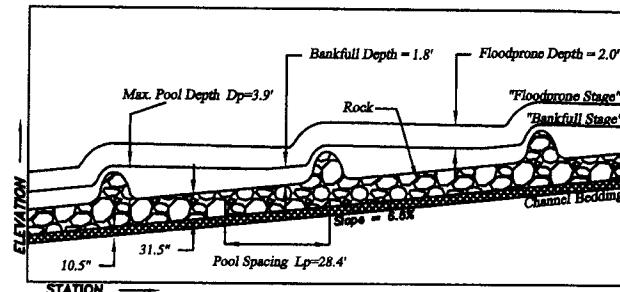
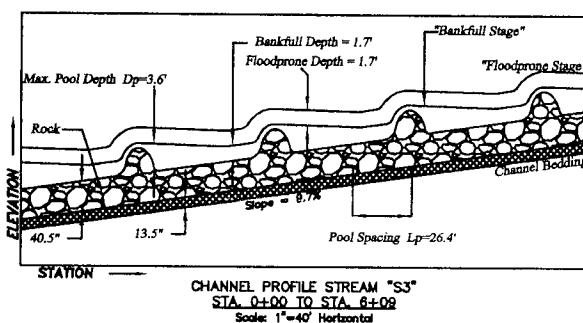
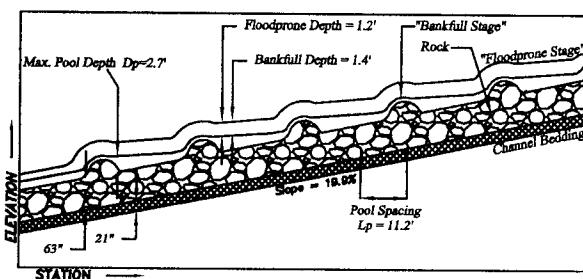
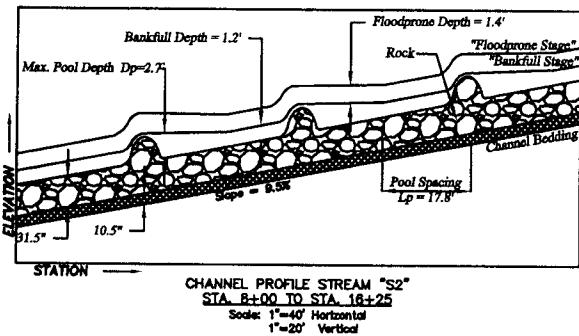
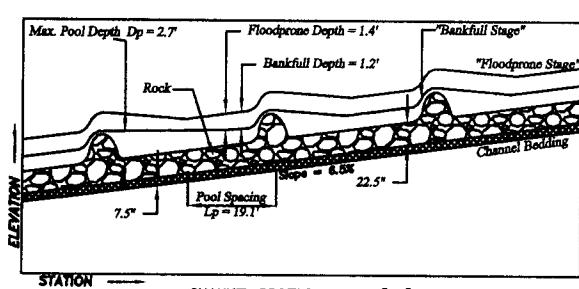
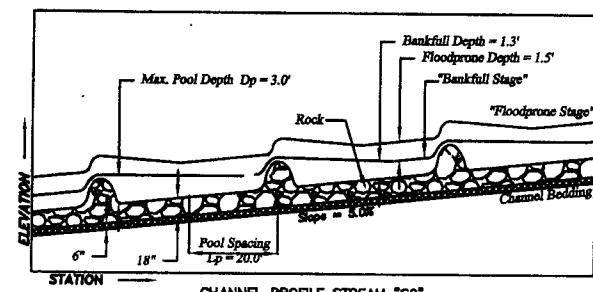
www.hamiltonandassoc.com



Oxford Mining Company
200401249 – UNTrib Standingstone Fork
Harrison County
Mitigation channel section and plan views (2)
Figure 20 of 36

U.S. ARMY CORPS OF ENGINEERS MITIGATION CHANNEL SECTIONS & PLAN VIEW	
Applicant: OXFORD MINING COMPANY	
DARON CONSOL SW	
Township: CADIZ	County: HARRISON
SCALE: AS NOTED	
Date: 12/09/05	Comm #: 861-9-1
342 High St., Box 471 Flushing, Ohio 43977 Ph (740) 968-4947 Fax (740) 968-4225 e-mail hamilton@st.net www.hamiltonandassoc.com	





Oxford Mining Company
200401249 – UNTrib Standingstone Fork
Harrison County
Mitigation channel section and plan views (3)
Figure 21 of 36

U.S. ARMY CORPS OF ENGINEERS
MITIGATION CHANNEL SECTIONS & PLAN VIEW

Applicant: OXFORD MINING COMPANY

DARON CONSOL SW

Township: CADIZ County: HARRISON

SCALE: AS NOTED

Date: 12/09/05

Comm #: 861-9-1

342 High St., Box 471

Flushing, Ohio 43977

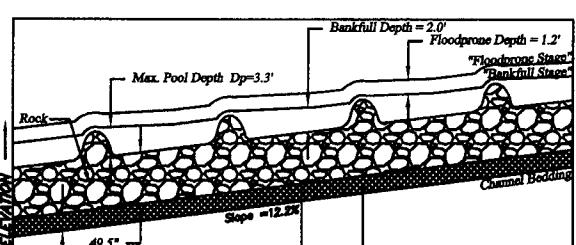
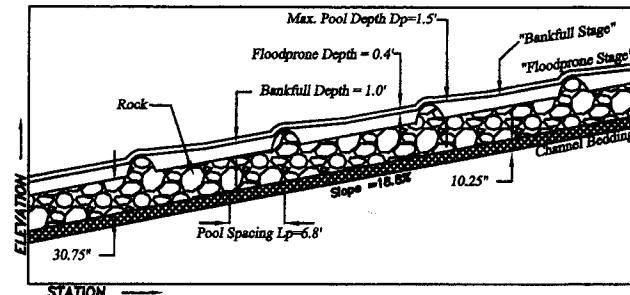
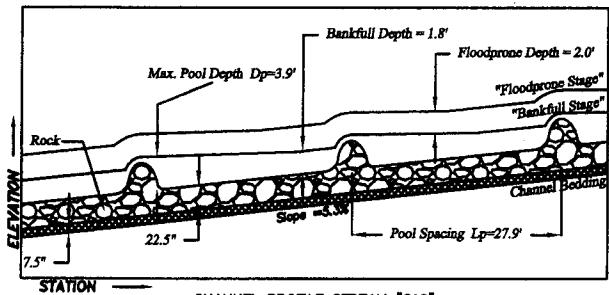
Ph (740) 968-4947

Fax (740) 968-4225

e-mail hamilton@1st.net

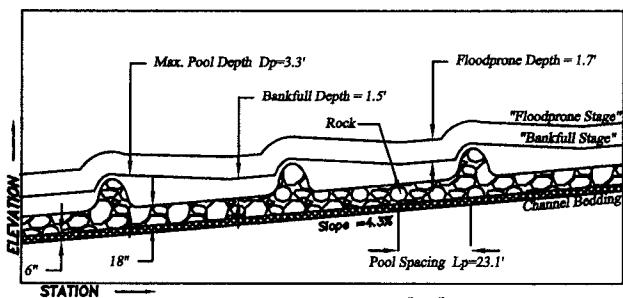
www.hamiltonandassoc.com





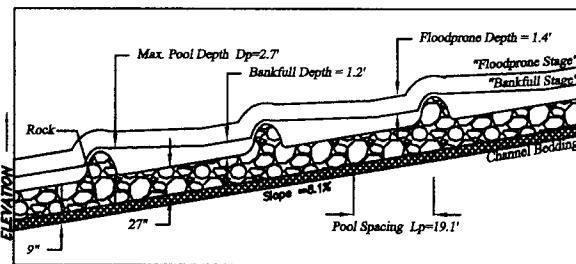
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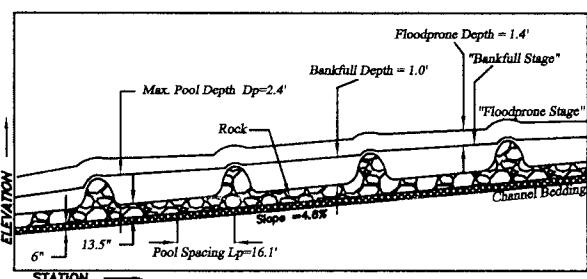
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1"=20' Vertical



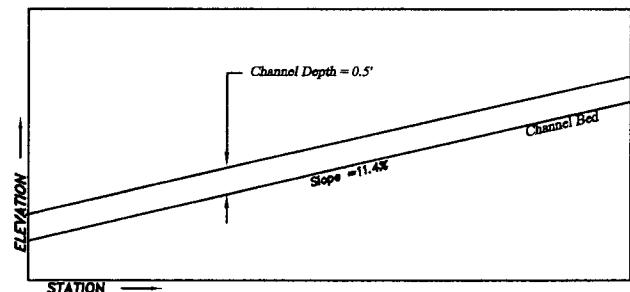
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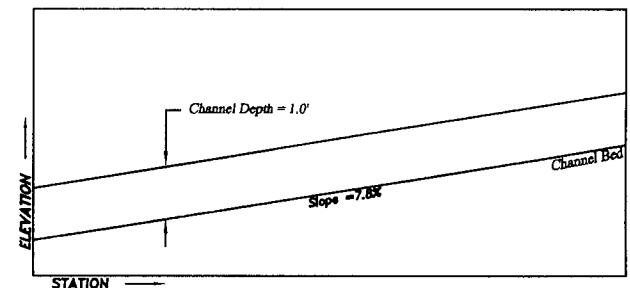
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STA 1+70 TO STA 8+07

Scale: 1"=40' Horizontal
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CHANNEL PROFILE STREAM "E35"
STA 0+21 TO STA 0+88

Scale: 1"=10' Horizontal
1"=5' Vertical



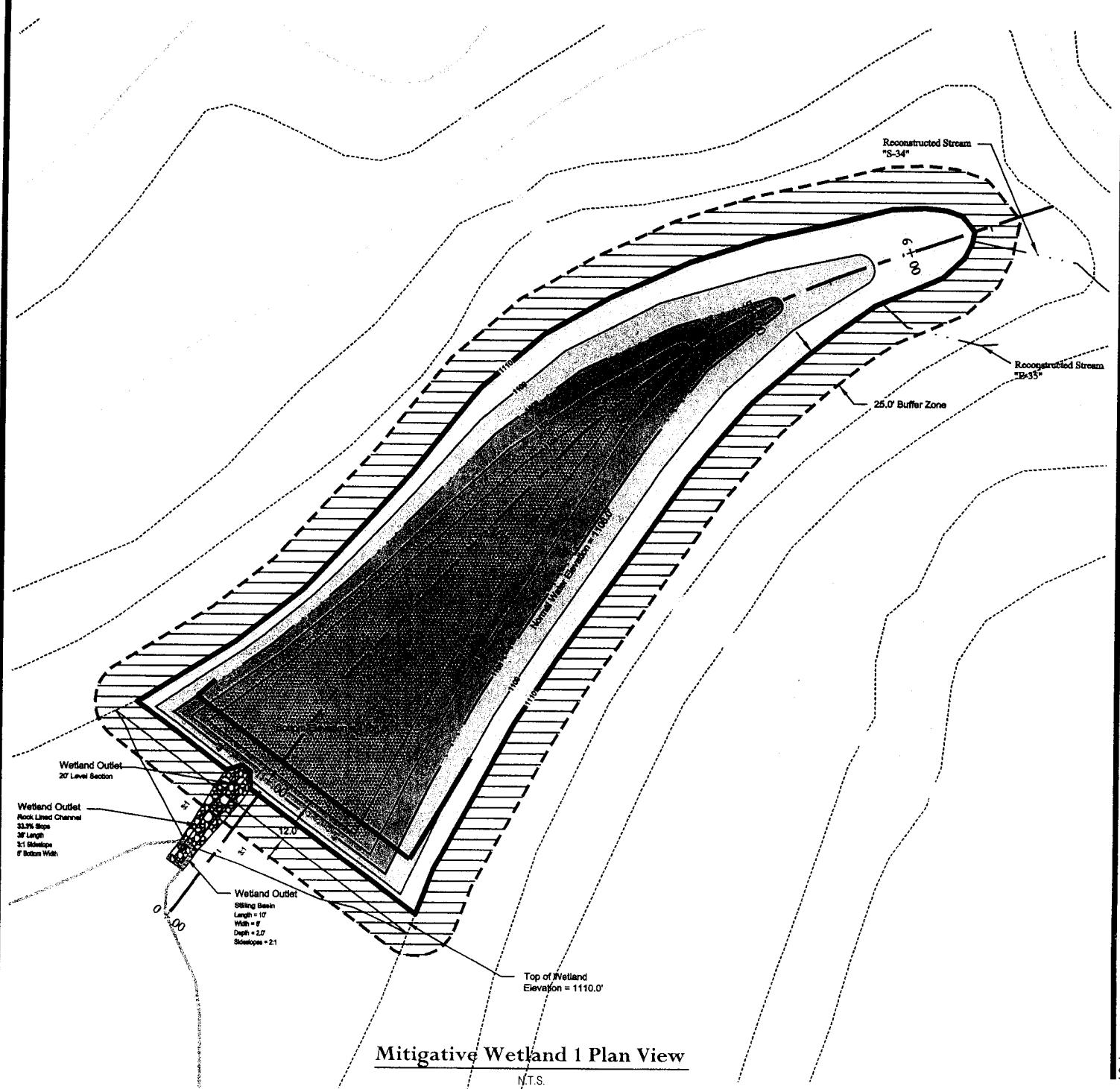
CHANNEL PROFILE STREAM "E42"
STA 0+00 TO STA 2+68

Scale: 1"=10' Horizontal
1"=5' Vertical

Oxford Mining Company
200401249 – UNTrib Standingstone Fork
Harrison County
Mitigation channel section and plan views (4)
Figure 22 of 36

U.S. ARMY CORPS OF ENGINEERS MITIGATION CHANNEL SECTIONS & PLAN VIEW	
Applicant: OXFORD MINING COMPANY	
DARON CONSOL SW	
Township: CADIZ	County: HARRISON
SCALE: AS NOTED	
Date: 12/09/05	Comm #: 861-9-1
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LEGEND

PLANT ZONE 1		0.45 acres
PLANT ZONE 2		0.34 acres
PLANT ZONE 3		0.29 acres
PLANT ZONE 4		0.37 acres
BUFFER ZONE		0.82 acres

TOTAL MITIGATIVE WETLAND AREA 1 **1.45 acres**
(excluding buffer zone)

ROCK LINED CHANNEL



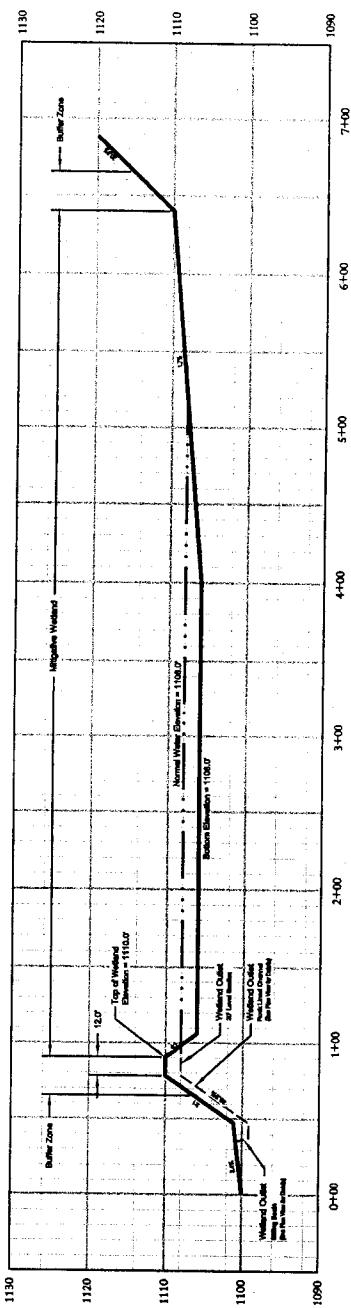
Oxford Mining Company
200401249 – UNTRIB Standingstone Fork
Harrison County
Plan View – Mitigation wetland 1
Figure 23 of 36

MITIGATION CHANNEL SECTIONS & PLAN VIEW

Applicant: OXFORD MINING COMPANY	
DARON CONSOL SW	
Township: CADIZ	
County: HARRISON	
SCALE: AS NOTED	
Date: 12/09/05	Comm #: 861-9-1

342 High St., Box 471
Flushing, Ohio 43977
Ph: (740) 968-1947
Fax: (740) 968-4225
e-mail: hamilton@lst.net
www.hamiltonandassoc.com

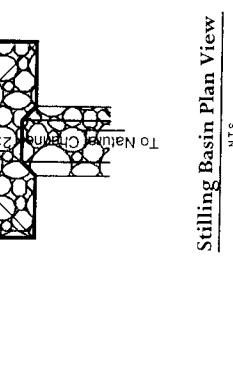
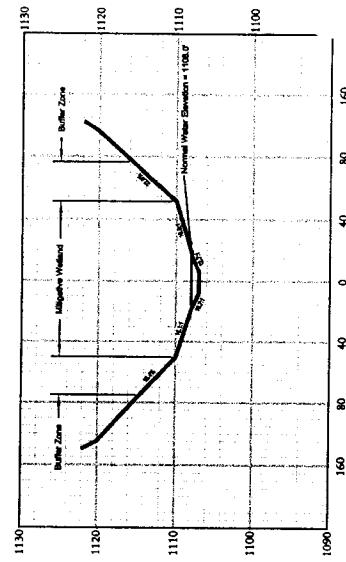
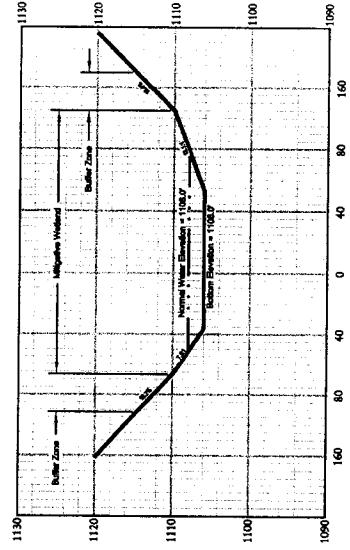




Mitigative Wetland 1 Profile



Mitigative Wetland 1 Cross Section
STATION 4+50
N.T.S.

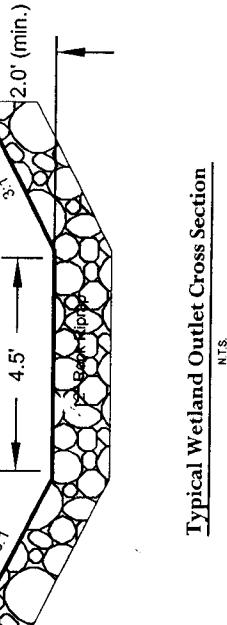


Oxford Mining Company

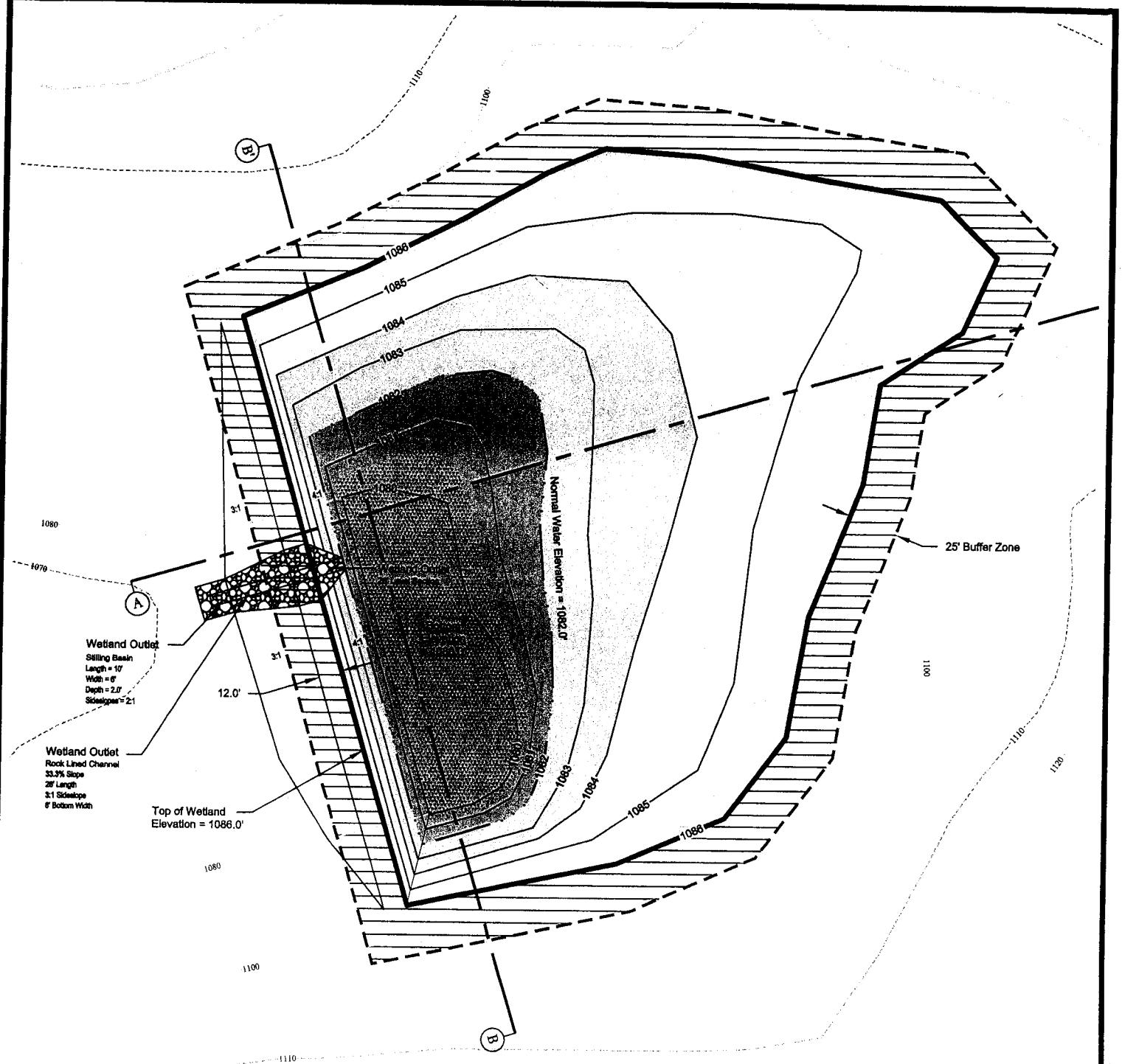
200401249 - UNTrib Standingstone Fork

Harrison County

Cross-section view - Mitigation wetland 1
Figure 24 of 36



U.S. ARMY CORPS OF ENGINEERS	
MITIGATION CHANNEL SECTIONS & PLAN VIEW	
Applicant: OXFORD MINING COMPANY	
DARON CONSOL SW	
Township: CADIZ	County: HARRISON
SCALE: AS NOTED	
Date: 12/09/05	Comm #: 861-9-1
342 High St., Box 471 Flushing, Ohio 43977 Ph: (740) 968-4947 Fax: (740) 968-4225 e-mail: hamilton@1st.net www.hamiltonandassociates.com	



Mitigative Wetland Plan View

Oxford Mining Company
 200401249 – UNTrib Standingstone Fork
 Harrison County
 Plan View – Mitigation wetland 2
 Figure 25 of 36

LEGEND

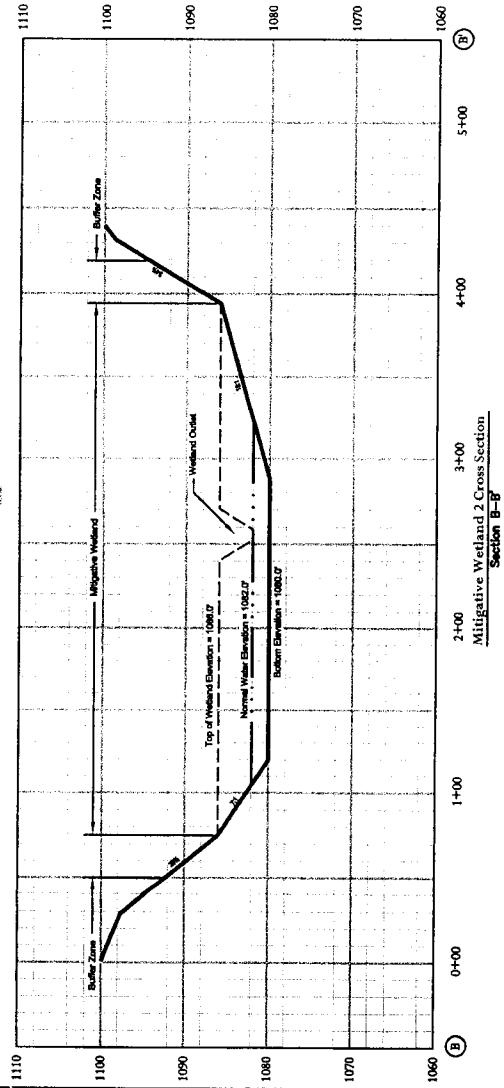
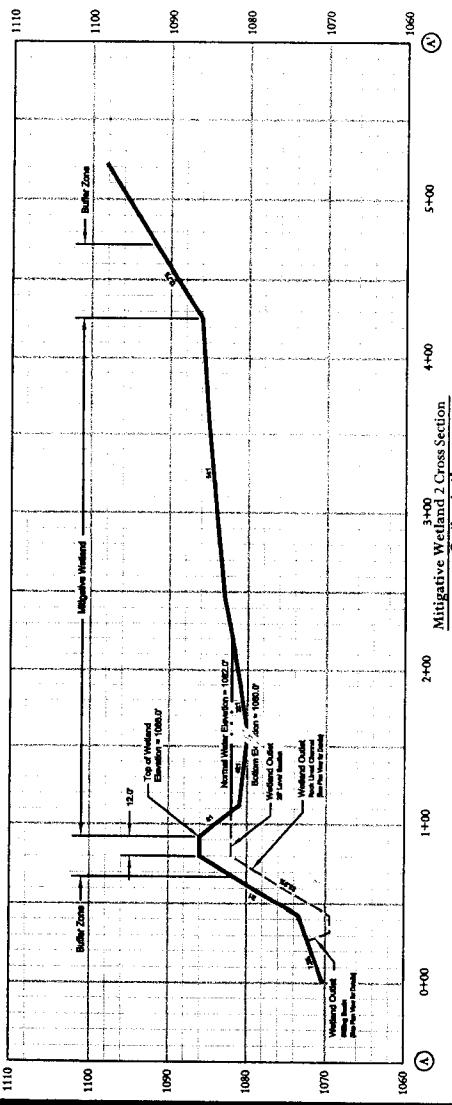
PLANT ZONE 1		0.25 acres
PLANT ZONE 2		0.24 acres
PLANT ZONE 3		0.53 acres
PLANT ZONE 4		1.13 acres
BUFFER ZONE		0.76 acres

TOTAL MITIGATIVE WETLAND AREA 2 (excluding buffer zone) 2.15 acres

ROCK LINED CHANNEL

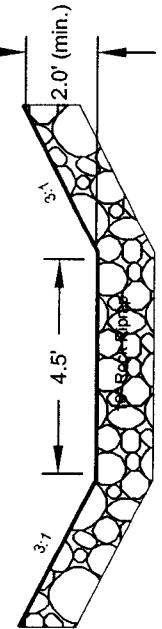
U.S. ARMY CORPS OF ENGINEERS MITIGATION CHANNEL SECTIONS & PLAN VIEW	
Applicant: OXFORD MINING COMPANY	
DARON CONSOL SW	
Township: CADIZ	County: HARRISON
SCALE: AS NOTED	
Date: 12/09/05	Comm #: 861-9-1
342 High St., Box 471 Flushing, Ohio 43977	
Ph: (740) 968-4947	
Fax: (740) 968-4225	
e-mail: hamilton@st.net	
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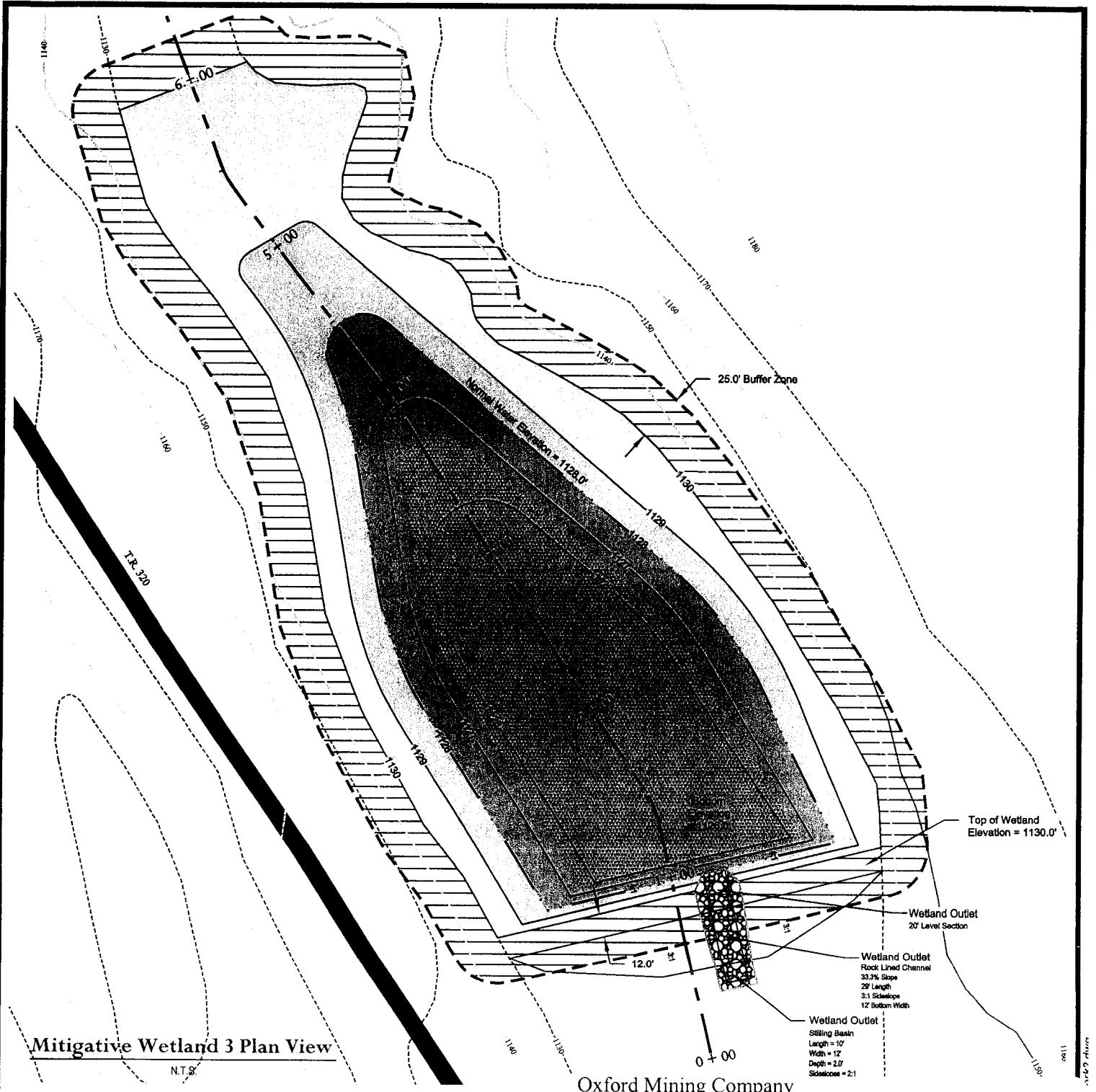
Stilling Basin Plan View
NTS

Oxford Mining Company
200401249 – UNTriB Standingstone Fork
Harrison County
Cross section view – Mitigation wetland 2
Figure 26 of 36



U.S. ARMY CORPS OF ENGINEERS	
MITIGATION CHANNEL SECTIONS & PLAN VIEW	
Applicant: OXFORD MINING COMPANY	
DARON CONSOL SW	
Township: CADIZ	County: HARRISON
SCALE: AS NOTED	
Date: 12/09/05	Comm #:
861-9-1	
342 High St., Box 471	
Flushing, Ohio 43977	
Ph. (740) 968-4947	
Fax: (740) 968-4225	
e-mail: hamilton@jst.net	
www.hamiltonandassoc.com	

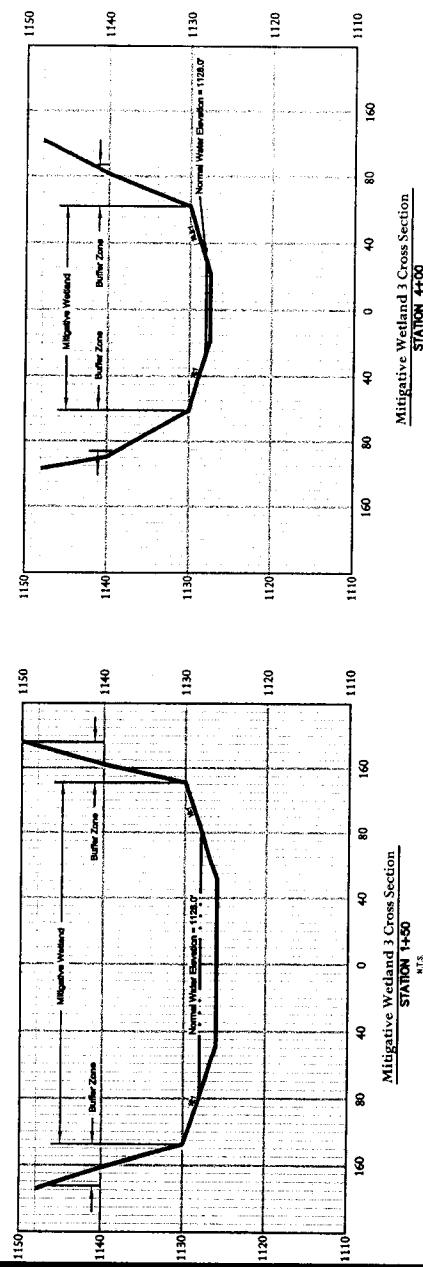
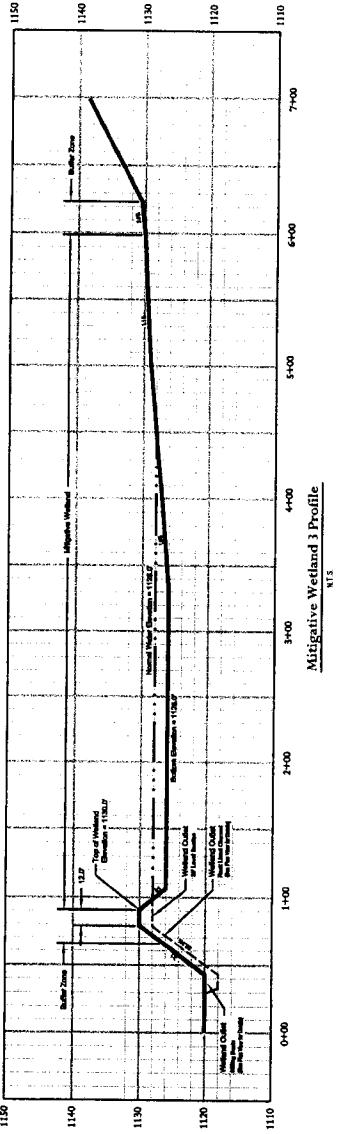
HAMILTON
Engineering Inc.



MITIGATION CHANNEL SECTIONS & PLAN VIEW	
Applicant: OXFORD MINING COMPANY	
DARON CONSOL SW	
Township: CADIZ	County: HARRISON
SCALE: AS NOTED	
Date: 12/09/05	Comm #: 861-9-1
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HAMILTON
Associates Inc.

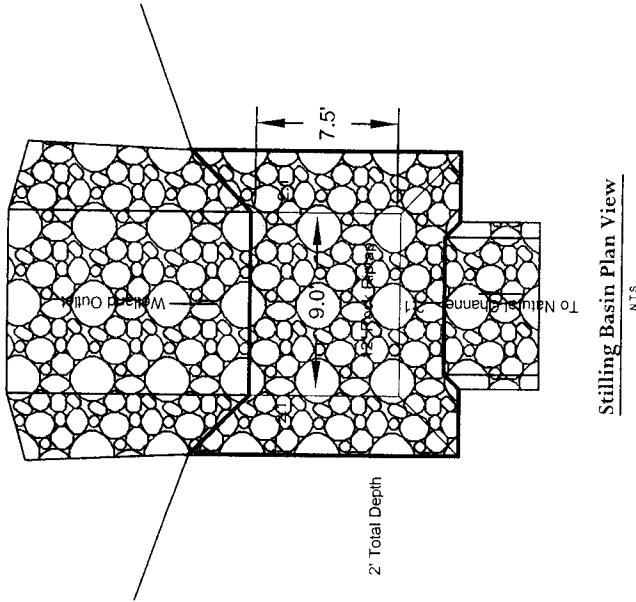
ROCK LINED CHANNEL



Mitigative Wetland 3 Cross Section

Mitigative Wetland 3 Cross Section

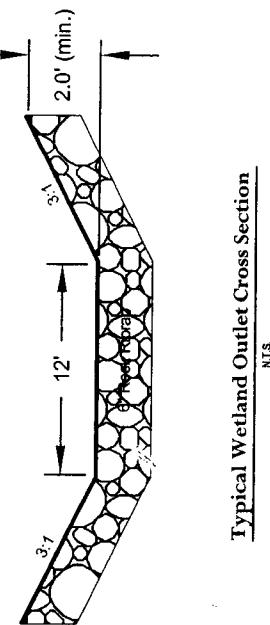
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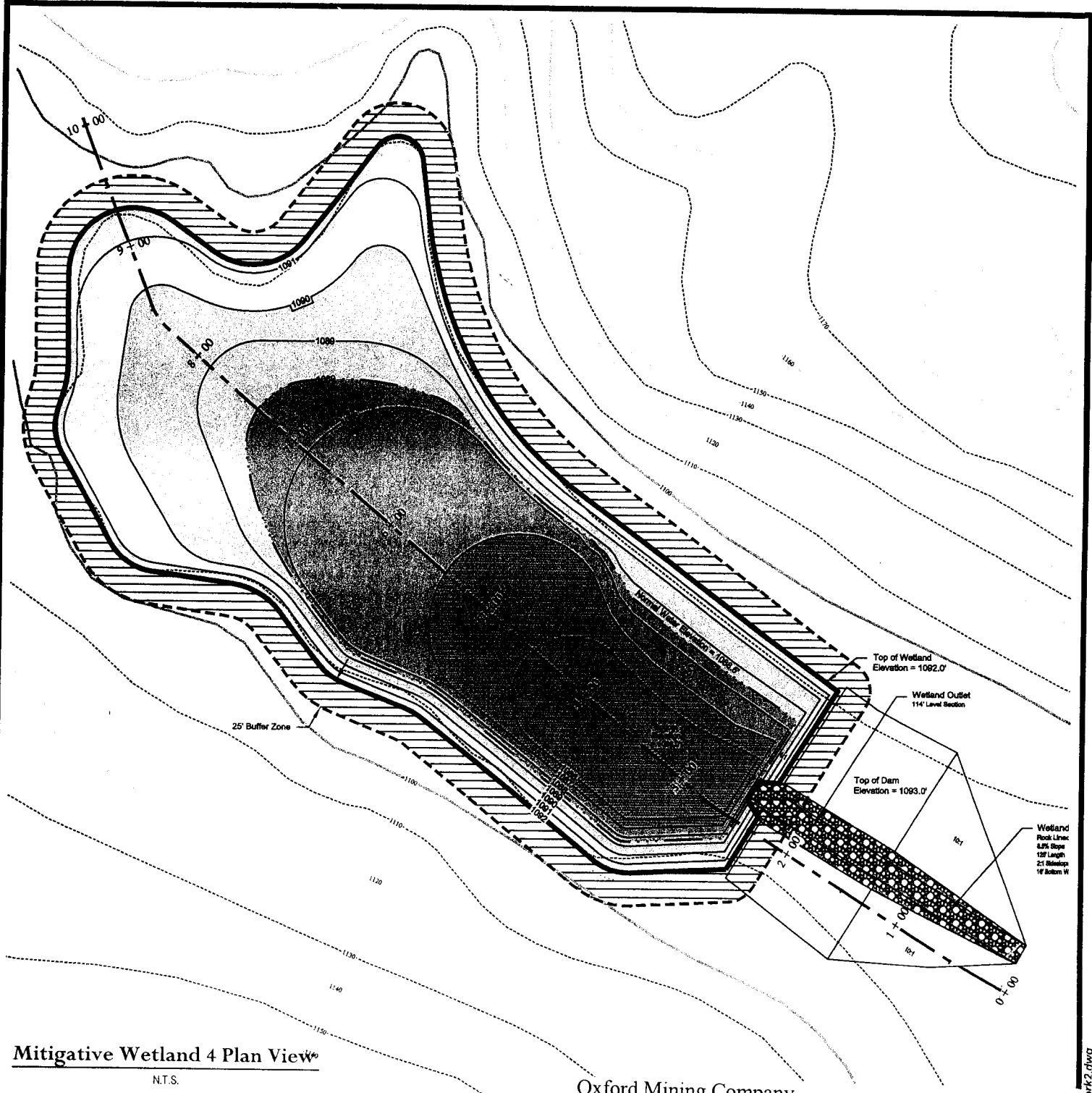
Stilling Basin Plan View

Oxford Mining Company
200401249 – UNtrib Standingstone Fork
Harrison County
Cross section view – Mitigation wetland 3
Figure 28 of 36

MITIGATION CHANNEL SECTIONS & PLAN VIEW	
Applicant: OXFORD MINING COMPANY	
DARON CONSOL SW	County: HARRISON
Township: CADIZ	SCALE: AS NOTED
Date: 12/09/05	Comm #: 861-9-1
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Typical Wetland Outlet Cross Section



Mitigative Wetland 4 Plan View^W

N.T.S.

LEGEND

PLANT ZONE 1		0.75 acres
PLANT ZONE 2		0.97 acres
PLANT ZONE 3		0.97 acres
PLANT ZONE 4		0.92 acres
BUFFER ZONE		0.84 acres

TOTAL MITIGATIVE WETLAND AREA 4 **1.90 acres**
(excluding buffer zone)

ROCK LINED CHANNEL



Oxford Mining Company
200401249 – UNTrib Standingstone Fork
Harrison County
Plan view – Mitigation wetland 4
Figure 29 of 36

MITIGATION CHANNEL SECTIONS & PLAN VIEW

Applicant: OXFORD MINING COMPANY

DARON CONSOL SW

Township: CADIZ County: HARRISON

SCALE: AS NOTED

Date: 12/09/05 Comm #: 861-9-1

342 High St., Box 471

Flushing, Ohio 43977

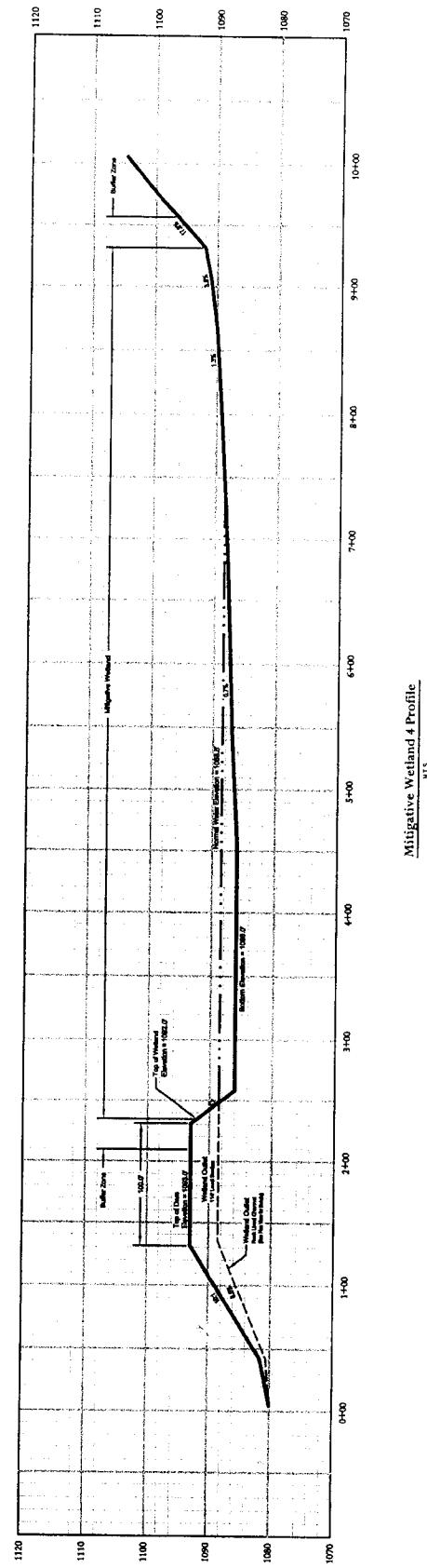
Ph: (740) 968-4947

Fax: (740) 968-4225

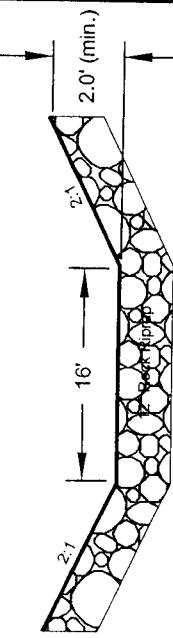
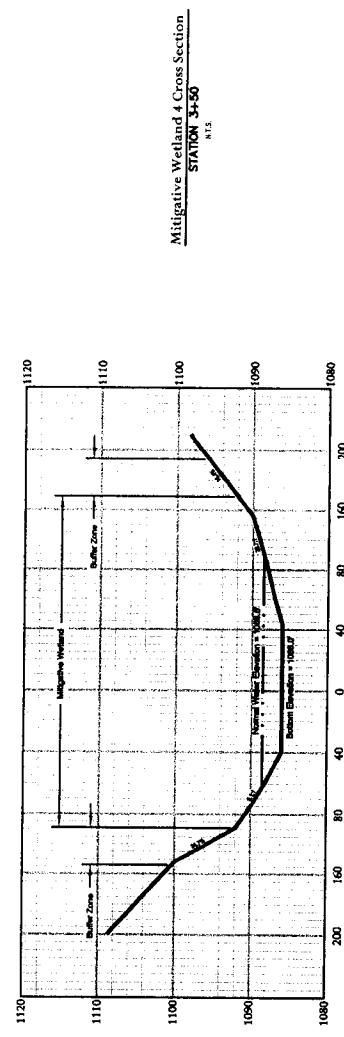
e-mail: hamilton@jst.net

www.hamiltonandassoc.com

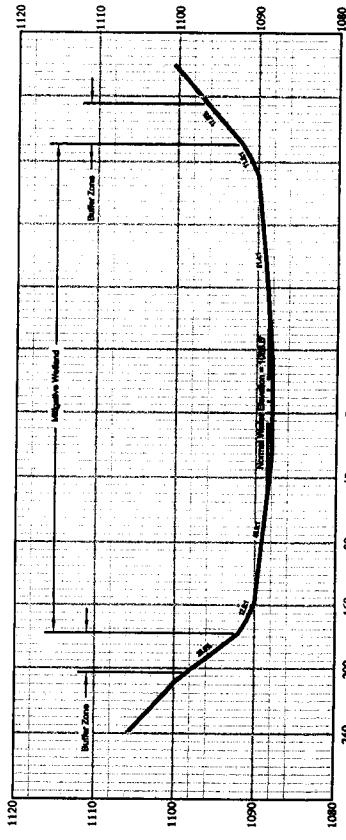




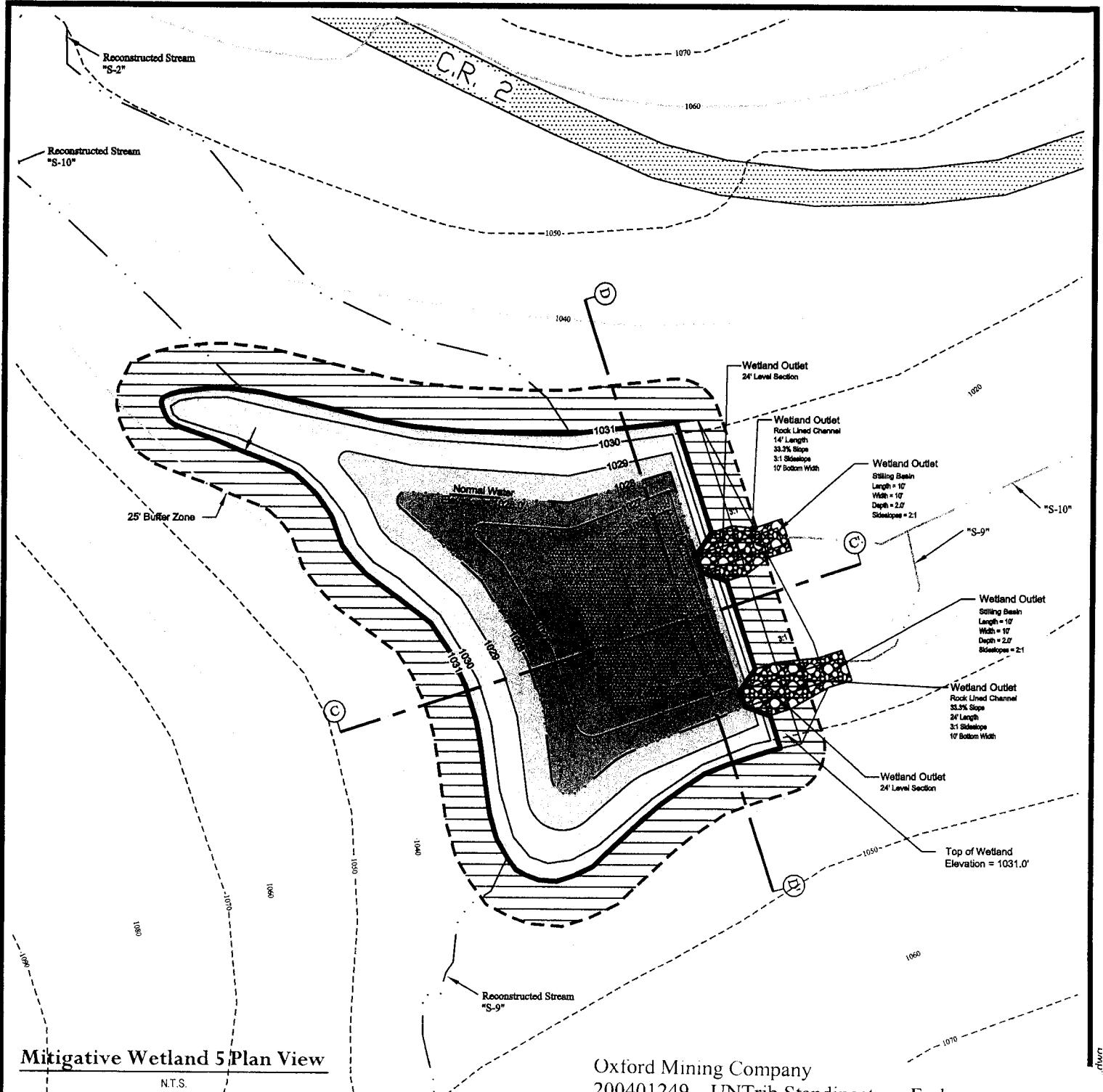
Mitigative Wetland 4 Profile
NTS



Typical Wetland Outlet Cross Section
Oxford Mining Company
200401249 – UNTrib Standingstone Fork
Harrison County
Cross-section view – Mitigation wetland 4
Figure 30 of 36



Township:	CADIZ	County:	HARRISON
SCALE:	AS NOTED	Comm #:	861-9-1
Date:	12/09/05	Ph:	(740) 968-4947
		342 High St., Box 471	Flushing, Ohio 43977
		Fax: (740) 968-4225	e-mail: hamilton@jst.net
HAMILTON			www.hamiltonandassociates.com



Mitigative Wetland 5 Plan View

N.T.S.

LEGEND

PLANT ZONE 1		0.16 acres
PLANT ZONE 2		0.27 acres
PLANT ZONE 3		0.19 acres
PLANT ZONE 4		0.38 acres
BUFFER ZONE		0.64 acres

**TOTAL MITIGATIVE WETLAND AREA 5
(excluding buffer zone)** **1.00 acres**

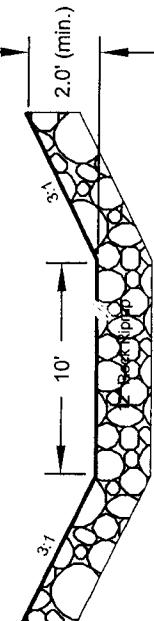
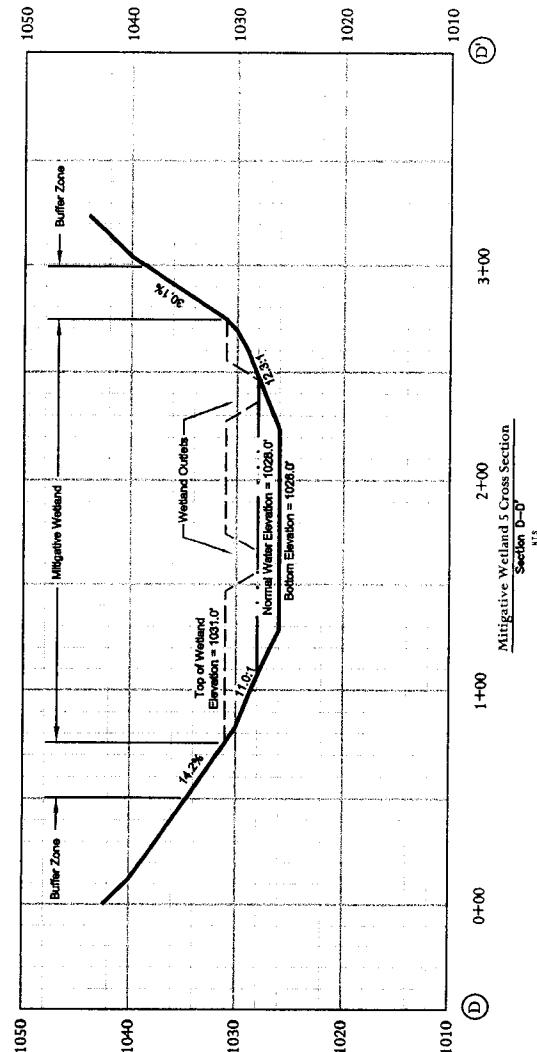
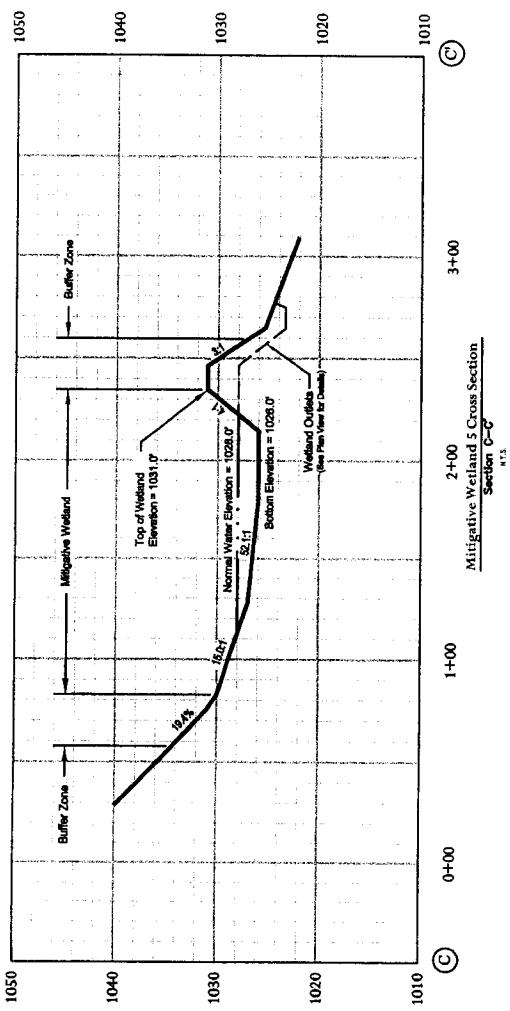
ROCK LINED CHANNEL



Oxford Mining Company
200401249 – UNTrib Standingstone Fork
Harrison County
Plan View – Mitigation wetland 5
Figure 31 of 36

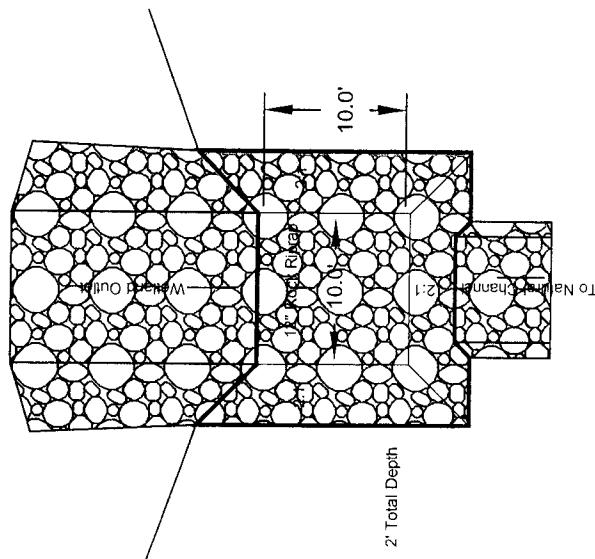
U.S. ARMY CORPS OF ENGINEERS MITIGATION CHANNEL SECTIONS & PLAN VIEW	
Applicant: OXFORD MINING COMPANY	
DARON CONSOL SW	
Township: CADIZ	County: HARRISON
SCALE: AS NOTED	
Date: 12/09/05	Comm #: 861-9-1
342 High St., Box 471 Flushing, Ohio 43977 Ph: (740) 968-4947 Fax: (740) 968-4225 e-mail: hamilton@1st.net www.hamiltonandassoc.com	





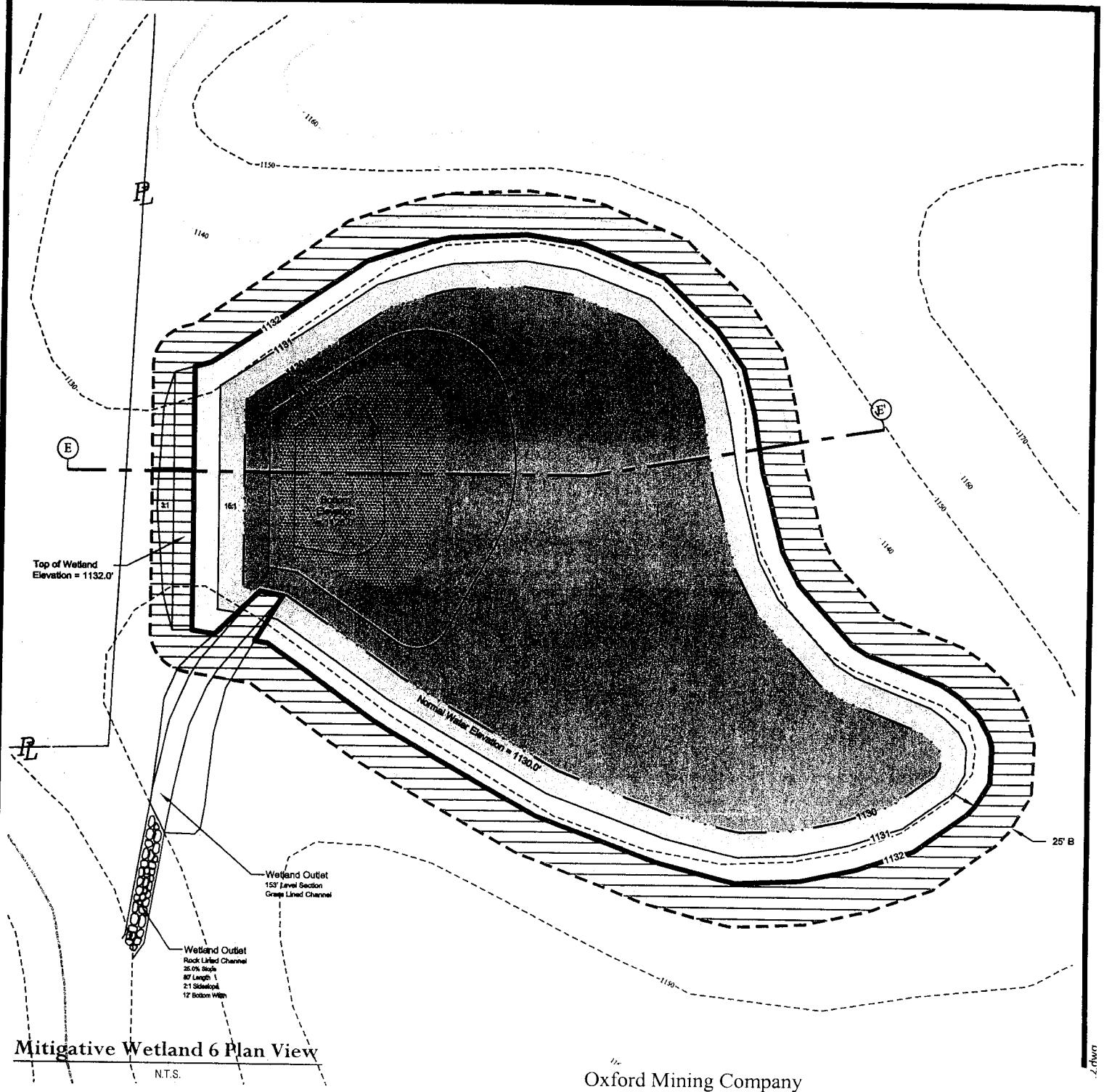
Oxford Mining Company
200401249 – UNtrib Standingstone Fork
Harrison County
Cross-section view – Mitigation wetland 5
Figure 32 of 36

Typical Stilling Basin Plan View
N.T.S.



Applicant: OXFORD MINING COMPANY	
DARON CONSOL SW	
Township: CADIZ	County: HARRISON
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associates, Inc.



Mitigative Wetland 6 Plan View

LEGEND

PLANT ZONE 1		0.24 acres
PLANT ZONE 2		1.52 acres
PLANT ZONE 3		0.41 acres
PLANT ZONE 4		0.45 acres
BUFFER ZONE		0.84 acres

**TOTAL MITIGATIVE WETLAND AREA 6
(excluding buffer zone)** **2.62 acres**

Oxford Mining Company
200401249 – UNTrib Standingstone Fork
Harrison County
Plan View – Mitigation wetland 6
Figure 33 of 36

U.S. ARMY CORPS OF ENGINEERS
MITIGATION CHANNEL SECTIONS & PLAN VIEW

Applicant: OXFORD MINING COMPANY

DARON CONSOL SW

Township: CADIZ

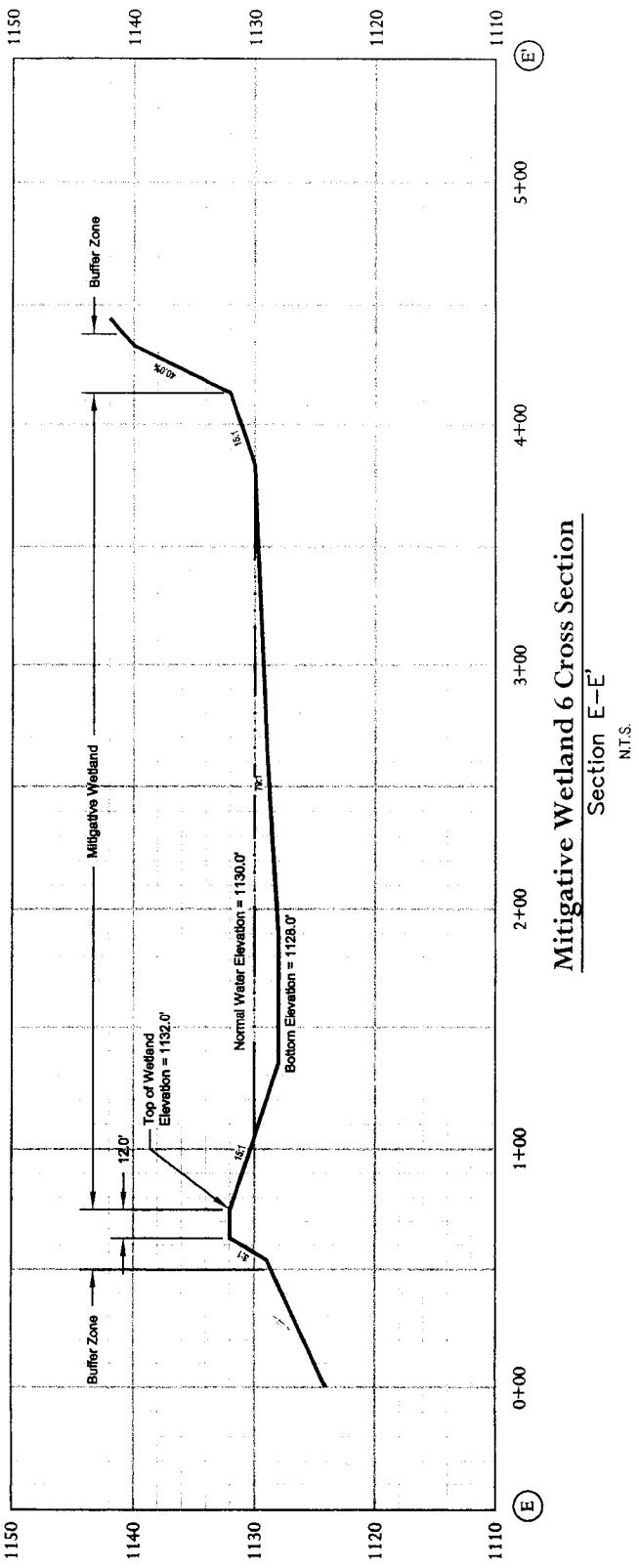
County: HARRISON

SCALE: AS NOTED

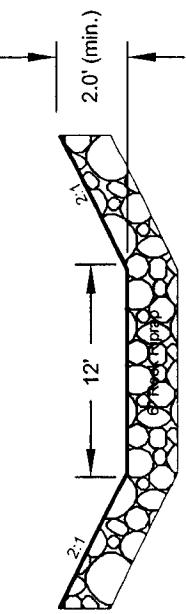
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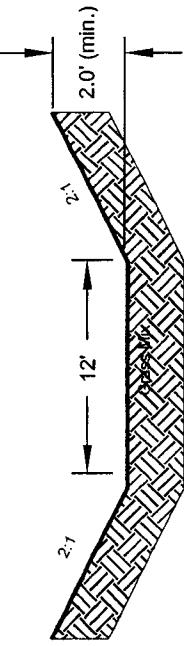
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e-mail: hamilton@lst.net
www.hamiltonandassoc.com



Mitigative Wetland 6 Cross Section
Section E-E'



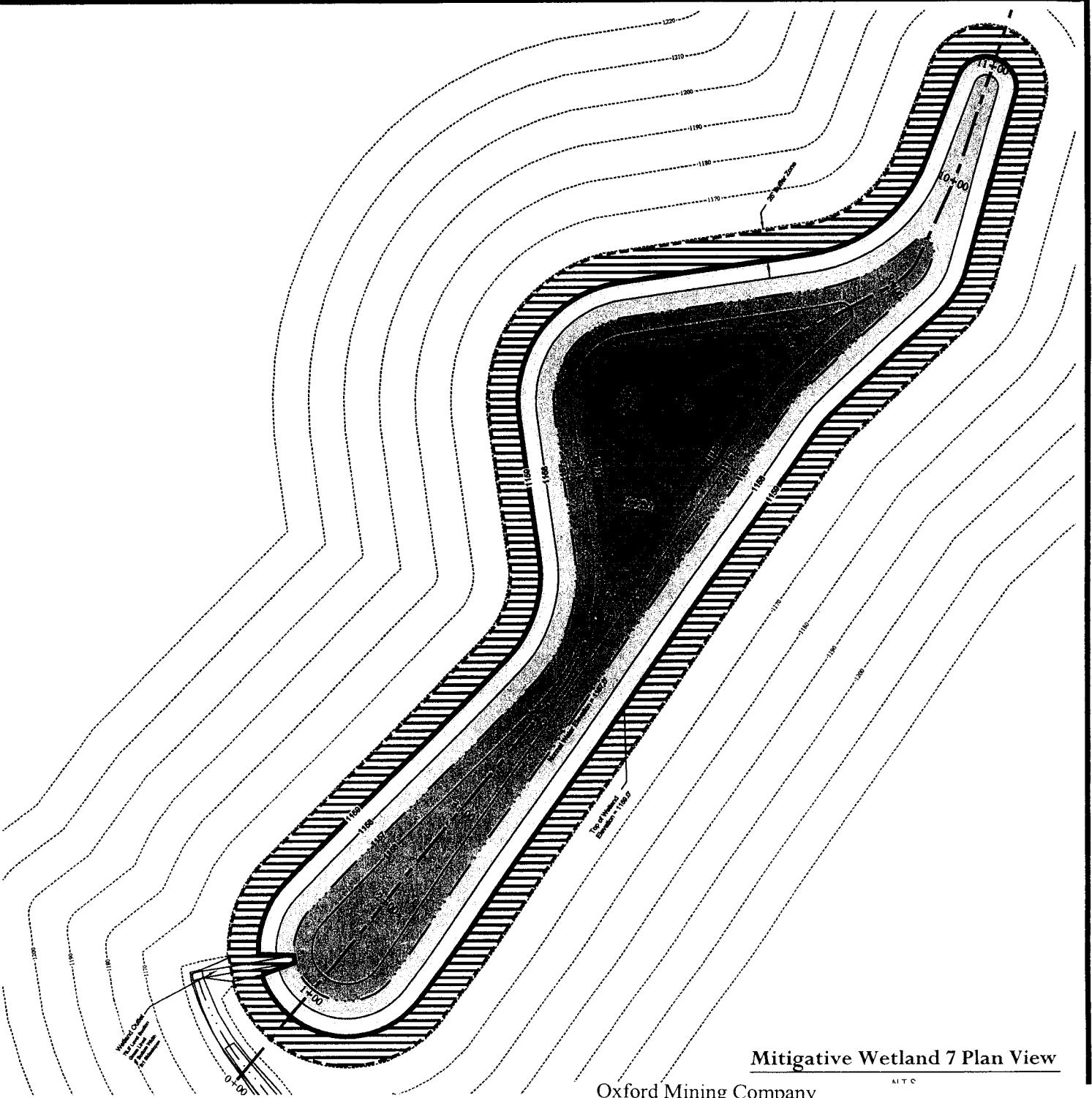
Typical Wetland Outlet Cross Section
Rock Lined Channel
N.T.S.



Oxford Mining Company
200401249 – UNTRib Standingstone Fork
Harrison County
Cross-section view – Mitigation wetland 6
Figure 34 of 36

U.S. ARMY CORPS OF ENGINEERS	
MITIGATION CHANNEL SECTIONS & PLAN VIEW	
Applicant:	OXFORD MINING COMPANY
Township:	DARON CONSOL SW CADIZ
County:	HARRISON
SCALE:	AS NOTED
Date:	12/09/05 Comm #: 861-9-1
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HAMILTON
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N.T.S.



Mitigative Wetland 7 Plan View

Oxford Mining Company
200401249 – UNTRib Standingstone Fork
Harrison County
Plan View – Mitigation wetland 7
Figure 35 of 36

LEGEND

PLANT ZONE 1		0.52 acres
PLANT ZONE 2		1.04 acres
PLANT ZONE 3		0.72 acres
PLANT ZONE 4		0.76 acres
BUFFER ZONE		1.34 acres

TOTAL MITIGATIVE WETLAND AREA 7 **3.04 acres**
(excluding buffer zone)

MITIGATION CHANNEL SECTIONS & PLAN VIEW

Applicant: OXFORD MINING COMPANY

DARON CONSOL SW

Township: CADIZ County: HARRISON

SCALE: AS NOTED

Date: 12/09/05 Comm #: 861-9-1

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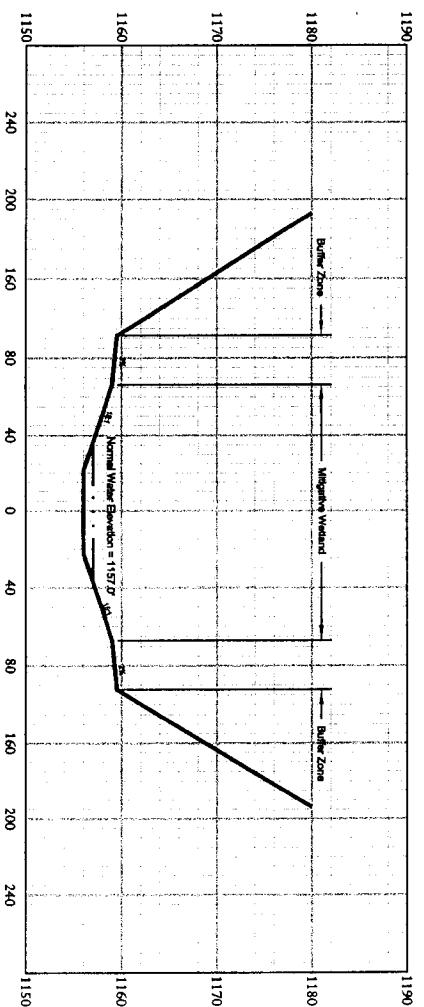
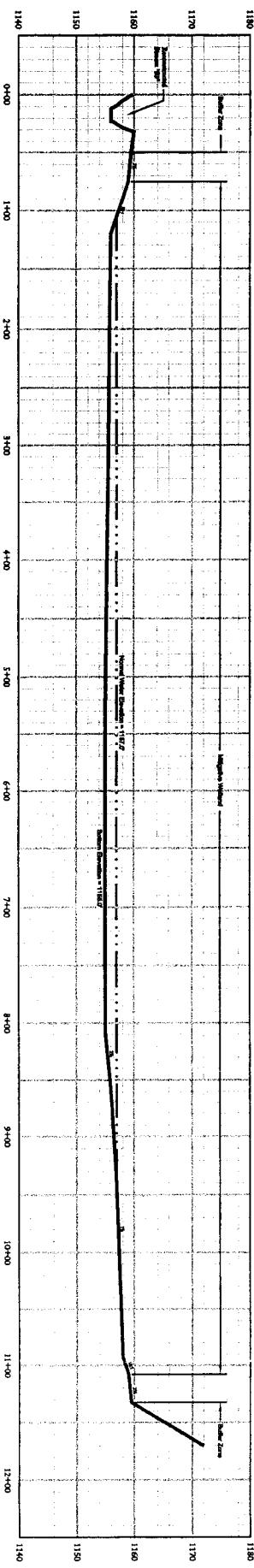
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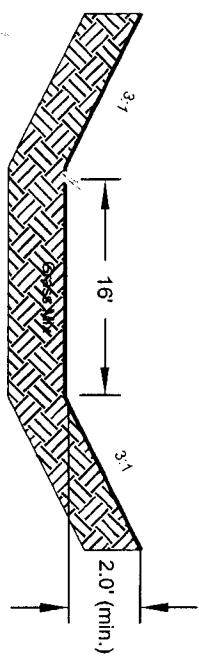
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Oxford Mining Company
200401249 – UNTrib Standingstone Fork
Harrison County
Cross section view – Mitigation wetland 7

Figure 36 of 36



Typical Wetland Outlet Cross Section
Gross Lined Channel

N.T.S.

U.S. ARMY CORPS OF ENGINEERS	
MITIGATION CHANNEL SECTIONS & PLAN VIEW	
Applicant: OXFORD MINING COMPANY	
DARON CONSOL SW	Township: CADIZ
SCALE: AS NOTED	County: HARRISON
Date: 12/09/05	Comm #: 861-9-1
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